



Northern Natural Gas Company  
P.O. Box 3330  
Omaha, NE 68103-0330  
402 398-7200

February 11, 2021

Ms. Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street N.E.  
Washington, D.C. 20426

Re: Northern Natural Gas Company  
Docket No. RP21- -000  
Notice of Penalty and DDVC Revenue Crediting Report

Dear Ms. Bose:

Pursuant to Section 57 of the General Terms and Conditions of Northern Natural Gas Company's (Northern) FERC Gas Tariff (Tariff), Northern hereby submits for filing a report of the penalty and daily delivery variance charges (DDVC) revenues that have been credited to shippers for the period November 1, 2019 through October 31, 2020. Shippers received the credits on their variance invoices posted to Northern's website on February 11, 2021. The credited dollars include interest, calculated in accordance with the Commission's regulations pursuant to 18 C.F.R. § 154.501(d), through the date the credits were posted to the shippers' accounts.

Northern is filing herein supporting schedules for each of the DDVC and penalty categories. The schedules detail (1) DDVC or penalty dollars collected by month; (2) interest on the dollars collected; and (3) the calculation of the credit amounts for each shipper as provided for in Section 57 of the General Terms and Conditions of Northern's Tariff.

Kimberly D. Bose, Secretary

February 11, 2021

Page 2 of 3

**Daily Delivery Variance Charges (DDVC)**

Northern collected DDVC revenues in the amount of \$1,925,238.74 plus interest of \$64,633.37 for a total DDVC credit of \$1,989,872.11. Northern prorated the DDVC credit to each shipper based on a weighted value equal to the shipper's total annual scheduled volume at the delivery points on Northern's system where each shipper took the swing (Scheduled Quantities) multiplied by a percentage equal to 100% minus the percent of the total DDVC dollars paid by each shipper for the year. Delivered volumes that were not subject to DDVCs were not included in the calculations of the DDVC credits. Schedules 1, 2 and 3 provide the detailed calculations by shipper.

**Unauthorized Gas**

Northern did not collect any penalty revenue for this category.

**Receipt Point and Supply Shortfall and Excess Penalties**

Northern collected Receipt Point Penalties in the amount of \$1,027.30 plus interest of \$13.19 for a total Receipt Point credit of \$1,040.49. Northern prorated the Receipt Point credit to shippers who operate contiguous, onshore receipt points that do not have an Operator Balancing Agreement (OBA), based on a weighted value equal to the total annual scheduled volumes at such receipt points, multiplied by a percentage equal to 100% minus the percent of the total receipt point penalty dollars paid by each shipper for the year. Receipt volumes that were not subject to the penalty were not included in calculating the credits. Schedules 4 and 5 provide the detailed calculation by shipper.

**PDD Rollover Charge**

Northern did not collect any penalty revenue for this category.

**Service**

Northern has served an electronic copy of this filing upon its shippers and interested state regulatory commissions.

**Communication**

Northern requests that all correspondence and communications concerning this filing be served upon each of the following:

Bambi Heckerman  
Director, Rates and Tariffs  
Northern Natural Gas Company  
1111 South 103rd Street  
Omaha, NE 68124-1000  
(402) 398-7067  
bambi.heckerman@nngco.com

JoAnna DeWald  
Senior Attorney  
Northern Natural Gas Company  
1111 South 103rd Street  
Omaha, NE 68124-1000  
(402) 398-7077  
joanna.dewald@nngco.com

Respectfully submitted,

/s/ Bambi Heckerman

Bambi Heckerman  
Director, Rates and Tariffs

Attachments

**Northern Natural Gas Company**  
**Annual Penalty Revenue Crediting**  
**Daily Delivery Variance Charges**  
**For the Period November 2019 - October 2020**

Schedule 1

| Penalty Type               | Month         | Volume<br>MMBTU  | Amount<br>\$          |
|----------------------------|---------------|------------------|-----------------------|
| [a]                        | [b]           | [c]              | [d]                   |
| NEGATIVE DDVC              | 201911        | 192,887          | 117,853               |
| NEGATIVE DDVC              | 201912        | 171,671          | 69,995                |
| NEGATIVE DDVC              | 202001        | 210,244          | 139,477               |
| NEGATIVE DDVC              | 202002        | 314,615          | 264,887               |
| NEGATIVE DDVC              | 202003        | 296,676          | 272,971               |
| NEGATIVE DDVC              | 202004        | 222,564          | 82,041                |
| NEGATIVE DDVC              | 202005        | 81,748           | 21,344                |
| NEGATIVE DDVC              | 202006        | 284,660          | 73,642                |
| NEGATIVE DDVC              | 202007        | 665,823          | 172,249               |
| NEGATIVE DDVC              | 202008        | (71,117)         | (18,398)              |
| NEGATIVE DDVC              | 202009        | 273,707          | (147,835)             |
| NEGATIVE DDVC              | 202010        | 191,509          | 41,745                |
| <b>TOTAL NEGATIVE DDVC</b> | <b>TOTAL:</b> | <b>2,834,987</b> | <b>\$1,089,970.78</b> |
| POSITIVE DDVC              | 201911        | 139,680          | 87,293                |
| POSITIVE DDVC              | 201912        | 60,996           | 47,529                |
| POSITIVE DDVC              | 202001        | 114,330          | 99,562                |
| POSITIVE DDVC              | 202002        | 88,649           | 82,372                |
| POSITIVE DDVC              | 202003        | 189,571          | 174,424               |
| POSITIVE DDVC              | 202004        | 101,620          | 37,408                |
| POSITIVE DDVC              | 202005        | 73,412           | 18,993                |
| POSITIVE DDVC              | 202006        | 35,428           | 9,165                 |
| POSITIVE DDVC              | 202007        | 331,518          | 85,764                |
| POSITIVE DDVC              | 202008        | (157,687)        | (40,794)              |
| POSITIVE DDVC              | 202009        | 139,086          | (69,183)              |
| POSITIVE DDVC              | 202010        | 112,403          | 38,744                |
| <b>TOTAL POSITIVE DDVC</b> | <b>TOTAL:</b> | <b>1,229,006</b> | <b>\$571,278.12</b>   |
| PUNITIVE DDVC              | 201911        | 58,162           | 36,853                |
| PUNITIVE DDVC              | 201912        | 18,102           | 25,042                |
| PUNITIVE DDVC              | 202001        | 52,633           | 62,531                |
| PUNITIVE DDVC              | 202002        | 22,982           | 32,826                |
| PUNITIVE DDVC              | 202003        | 33,857           | 31,152                |
| PUNITIVE DDVC              | 202004        | 58,672           | 21,632                |
| PUNITIVE DDVC              | 202005        | 21,872           | 5,658                 |
| PUNITIVE DDVC              | 202006        | 18,665           | 4,829                 |
| PUNITIVE DDVC              | 202007        | 37,068           | 9,590                 |
| PUNITIVE DDVC              | 202008        | 51,531           | 13,331                |
| PUNITIVE DDVC              | 202009        | 71,376           | (16,705)              |
| PUNITIVE DDVC              | 202010        | 40,095           | 37,250                |
| <b>TOTAL PUNITIVE DDVC</b> | <b>TOTAL:</b> | <b>485,015</b>   | <b>\$263,989.84</b>   |
| <b>TOTAL PENALTIES</b>     | <b>TOTAL:</b> | <b>4,549,008</b> | <b>\$1,925,238.74</b> |

**Northern Natural Gas Company**  
**Annual Penalty Revenue Crediting**  
**Daily Delivery Variance Charge Revenue Credit Interest**  
**For the Period November 2019 - October 2020**

Schedule 2

| Month<br>(a) | Penalty<br>Amount<br>Collected<br>(b)<br>/1<br>\$ | FERC<br>Interest<br>(c) | Days For<br>First<br>Invoice<br>Month<br>(d)<br>/2 | Days<br>Full<br>Month<br>(e) | Partial<br>Month<br>Interest<br>(f) =<br>d * c / 365 | Full<br>Month<br>Interest<br>(g) =<br>e * c / 365 | Interest<br>For First<br>Month<br>Billed<br>(h)<br>/3<br>\$ | Interest<br>For Full<br>Month<br>(i)<br>/4<br>\$ | Total<br>Interest<br>(j)<br>h + i<br>\$ | Cumulative<br>Balance<br>(k)<br>/5<br>\$ |
|--------------|---|-------------------------|--|------------------------------|--|---|---|--|---|--|
| 201911       | 241,999.91  |                         |  |                              |  |   |   |  |   | 0.00                                     |
| 201912       | 142,566.18  | 5.420 %                 | 9  |                              | 0.0013   |   | 314.60  | 314.60   | 314.60                                  | 242,314.51                               |
| 202001       | 301,570.22  | 4.960 %                 | 8  | 31                           | 0.0011   | 0.0042  | 156.82  | 1,017.72   | 1,174.54                                | 384,880.69                               |
| 202002       | 380,085.78  | 4.960 %                 | 6  | 29                           | 0.0008   | 0.0039  | 241.26  | 1,501.04   | 1,742.30                                | 686,450.91                               |
| 202003       | 478,546.82  | 4.960 %                 | 9  | 31                           | 0.0012   | 0.0042  | 456.10  | 2,883.09   | 3,339.19                                | 1,072,792.72                             |
| 202004       | 141,081.18  | 4.750 %                 | 8  | 30                           | 0.0010   | 0.0039  | 478.55  | 4,183.88   | 4,662.43                                | 1,551,339.54                             |
| 202005       | 45,995.15   | 4.750 %                 | 6  | 31                           | 0.0008   | 0.0040  | 112.86  | 6,205.36   | 6,318.22                                | 1,692,420.72                             |
| 202006       | 87,635.65   | 4.750 %                 | 9  | 30                           | 0.0012   | 0.0039  | 55.19   | 6,600.43   | 6,655.62                                | 1,756,052.14                             |
| 202007       | 267,601.73  | 3.430 %                 | 9  | 31                           | 0.0008   | 0.0029  | 70.11   | 5,092.56   | 5,162.67                                | 1,843,687.79                             |
| 202008       | -45,860.65  | 3.430 %                 | 8  | 31                           | 0.0008   | 0.0029  | 214.08  | 5,346.70   | 5,560.78                                | 2,111,289.52                             |
| 202009       | -233,721.86                                       | 3.430 %                 | 7  | 30                           | 0.0007   | 0.0028  | -32.10  | 5,911.60   | 5,879.50                                | 2,082,031.82                             |
| 202010       | 117,738.63  | 3.250 %                 | 6  | 31                           | 0.0005   | 0.0028  | -116.86   | 5,829.69   | 5,712.83                                | 1,848,309.96                             |
| 202011       |   | 3.250 %                 | 8  | 30                           | 0.0007   | 0.0027  | 82.42   | 4,990.44   | 5,072.86                                | 1,966,048.59                             |
| 202012       |   | 3.250 %                 |  | 31                           |  | 0.0028  |   | 5,504.94   | 5,504.94                                | 1,982,339.22                             |
| 202101       |   | 3.250 %                 |  | 31                           |  | 0.0028  |   | 5,550.53   | 5,550.53                                | 1,982,339.22                             |
| 202102       |   | 3.250 %                 |  | 11                           |  | 0.0010  |   | 1,982.36   | 1,982.36                                | 1,989,872.11                             |
|              | <b>\$1,925,238.74</b>                             |                         |  |                              |  |   | <b>\$2,033.03</b>   | <b>\$62,600.34</b>                               | <b>\$64,633.37</b>                      | <b>\$1,989,872.11</b>                    |

**Footnotes**

1/ Sum of all DDVC penalties by month. See Schedule 1.

2/ The first month of interest is based on days from invoice due date to the end of the month.

3/ Penalty Amount Collected from prior month \* Partial Month Interest Rate.

4/ Cumulative Balance from prior month \* Full Month Interest Rate.

5/ Penalty Amount Collected from prior month plus Cumulative Balance from prior month plus Total Interest from previous quarters.

**Northern Natural Gas Company**  
**Daily Delivery Variance Charge Revenue Credit Report**  
**For the Period November 2019 – October 2020**

Schedule 3

| Shipper Name                             | DDVC Paid  | Percent of<br>Total DDVCs | Inverse DDVCs<br>paid | Scheduled<br>Quantities (SQ) | SQ * Inverse<br>DDVCs paid | Weighted Factor<br>(Payback Percent) | Penalty Credit<br>(h) = (g) * total<br>credit |
|--|------------|---------------------------|-----------------------|------------------------------|----------------------------|--------------------------------------|---|
| (a)                                      | (b)<br>\$  | (c)                       | (d) = 100% - c        | (e)<br>dth                   | (f) = d*e<br>dth           | (g) = f / Sum(f)                     | \$  |
| AG PROCESSING INC A COOPERATIVE          | 6,337.76   | 0.32919346 %              | 99.67080654 %         | 2,719,905                    | 2,710,951                  | 0.26621619 %                         | 5,297.36                                      |
| AGRI-ENERGY, LLC                         | 3,824.74   | 0.19866315 %              | 99.80133685 %         | 204,588                      | 204,181                    | 0.02005063 %                         | 398.98  |
| AL-CORN CLEAN FUEL, LLC                  | 433.56     | 0.02251980 %              | 99.97748020 %         | 3,060,655                    | 3,059,965                  | 0.30048947 %                         | 5,979.36                                      |
| ALTON MUNICIPAL UTILITIES                | 321.89     | 0.01671948 %              | 99.98328052 %         | 82,799                       | 82,785                     | 0.00812951 %                         | 161.77  |
| AUSTIN UTILITIES                         | 793.53     | 0.04121723 %              | 99.95878277 %         | 2,682,953                    | 2,681,847                  | 0.26335817 %                         | 5,240.49                                      |
| BADGER STATE ETHANOL LLC                 | 1,355.92   | 0.07042867 %              | 99.92957133 %         | 1,938,770                    | 1,937,404                  | 0.19025365 %                         | 3,785.80                                      |
| BLACK HILLS SERVICE COMPANY, LLC         | 1,139.67   | 0.05919629 %              | 99.94080371 %         | 78,663,309                   | 78,616,743                 | 7.72018754 %                         | 153,621.86                                    |
| BP CANADA ENERGY MARKETING CORP.         | 35,272.97  | 1.83213486 %              | 98.16786514 %         | 13,667,854                   | 13,417,440                 | 1.31759660 %                         | 26,218.49                                     |
| BUSHMILLS ETHANOL, INC.                  | 17,967.26  | 0.93324841 %              | 99.06675159 %         | 2,041,346                    | 2,022,295                  | 0.19858997 %                         | 3,951.69                                      |
| CARDINAL FG COMPANY                      | 137.89     | 0.00716223 %              | 99.99283777 %         | 859,760                      | 859,698                    | 0.08442260 %                         | 1,679.90                                      |
| CARDINAL IG                              | 108.86     | 0.00565436 %              | 99.99434564 %         | 668,027                      | 667,989                    | 0.06559672 %                         | 1,305.29                                      |
| CASCADE MUNICIPAL UTILITIES              | 0.00       | 0.00000000 %              | 100.00000000 %        | 108,107                      | 108,107                    | 0.01061614 %                         | 211.25  |
| CEDAR FALLS UTILITIES                    | 4,246.47   | 0.22056849 %              | 99.77943151 %         | 2,638,667                    | 2,632,846                  | 0.25854626 %                         | 5,144.74                                      |
| CENTERPOINT ENERGY RESOURCES CORP., D/B/ | 34,518.73  | 1.79295842 %              | 98.20704158 %         | 153,756,271                  | 150,999,485                | 14.82819433 %                        | 295,062.09                                    |
| CF INDUSTRIES NITROGEN, LLC              | 165,659.86 | 8.60463986 %              | 91.39536014 %         | 46,824,703                   | 42,795,605                 | 4.20254114 %                         | 83,625.19                                     |
| CIRCLE PINES UTILITIES                   | 395.96     | 0.02056680 %              | 99.97943320 %         | 399,654                      | 399,571                    | 0.03923799 %                         | 780.79  |
| CITY OF CROOKS, SD                       | 145.53     | 0.00755906 %              | 99.99244094 %         | 12,507                       | 12,506                     | 0.00122809 %                         | 24.44   |
| CITY OF EVERLY, IOWA                     | 153.87     | 0.00799226 %              | 99.99200774 %         | 42,300                       | 42,296                     | 0.00415348 %                         | 82.65   |
| CITY OF FAIRBANK                         | 2.33       | 0.00012102 %              | 99.99987898 %         | 43,394                       | 43,393                     | 0.00426121 %                         | 84.79   |
| CITY OF GILMORE, IOWA                    | 0.00       | 0.00000000 %              | 100.00000000 %        | 175,687                      | 175,687                    | 0.01725252 %                         | 343.30  |
| CITY OF HARTLEY, IOWA                    | 122.75     | 0.00637583 %              | 99.99362417 %         | 118,887                      | 118,879                    | 0.01167395 %                         | 232.30  |
| CITY OF HAWARDEN, IOWA                   | 0.00       | 0.00000000 %              | 100.00000000 %        | 112,905                      | 112,905                    | 0.01108730 %                         | 220.62  |
| CITY OF MAPLETON                         | 65.54      | 0.00340425 %              | 99.99659575 %         | 48,717                       | 48,715                     | 0.00478383 %                         | 95.19   |
| CITY OF ORANGE CITY                      | 275.71     | 0.01432082 %              | 99.98567918 %         | 332,632                      | 332,584                    | 0.03265985 %                         | 649.89  |
| CITY OF PONCA, NEBRASKA                  | 0.00       | 0.00000000 %              | 100.00000000 %        | 28,447                       | 28,447                     | 0.00279350 %                         | 55.59   |
| CITY OF REMSEN, IOWA                     | 169.00     | 0.00877813 %              | 99.99122187 %         | 86,889                       | 86,881                     | 0.00853174 %                         | 169.77  |
| CITY OF ROLFE, IOWA                      | 0.00       | 0.00000000 %              | 100.00000000 %        | 38,392                       | 38,392                     | 0.00377011 %                         | 75.02   |
| CITY OF ROUND LAKE, MN                   | 0.00       | 0.00000000 %              | 100.00000000 %        | 34,350                       | 34,350                     | 0.00337318 %                         | 67.12   |
| CITY OF SAC CITY, IOWA                   | 0.00       | 0.00000000 %              | 100.00000000 %        | 118,623                      | 118,623                    | 0.01164881 %                         | 231.80  |
| CITY OF SANBORN, IA                      | 0.00       | 0.00000000 %              | 100.00000000 %        | 164,537                      | 164,537                    | 0.01615758 %                         | 321.51  |
| CITY OF SCRIBNER                         | 3.62       | 0.00018803 %              | 99.99981197 %         | 34,434                       | 34,433                     | 0.00338133 %                         | 67.28   |
| CITY OF SIOUX CENTER                     | 2,106.50   | 0.10941500 %              | 99.89058500 %         | 1,509,222                    | 1,507,570                  | 0.14804382 %                         | 2,945.88                                      |
| CITY OF TIPTON                           | 0.00       | 0.00000000 %              | 100.00000000 %        | 193,949                      | 193,949                    | 0.01904585 %                         | 378.99  |
| CITY OF TWO HARBORS, MINNESOTA           | 11.59      | 0.00060200 %              | 99.99939800 %         | 469,486                      | 469,483                    | 0.04610337 %                         | 917.40  |
| CITY OF VIRGINIA, MN                     | 237.84     | 0.01235379 %              | 99.98764621 %         | 1,037,613                    | 1,037,484                  | 0.10188124 %                         | 2,027.31                                      |
| CITY OF WAHOO                            | 2.64       | 0.00013713 %              | 99.99986287 %         | 211,142                      | 211,141                    | 0.02073411 %                         | 412.58  |

**Northern Natural Gas Company**  
**Daily Delivery Variance Charge Revenue Credit Report**  
**For the Period November 2019 – October 2020**

Schedule 3

| Shipper Name                             | DDVC Paid  | Percent of<br>Total DDVCs | Inverse DDVCs<br>paid | Scheduled<br>Quantities (SQ) | SQ * Inverse<br>DDVCs paid | Weighted Factor<br>(Payback Percent) | Penalty Credit<br>(h) = (g) * total<br>credit |
|--|------------|---------------------------|-----------------------|------------------------------|----------------------------|--------------------------------------|---|
| (a)                                      | (b)<br>\$  | (c)                       | (d) = 100% - c        | (e)<br>dth                   | (f) = d*e<br>dth           | (g) = f / Sum(f)                     | \$  |
| CITY OF WAUKEE                           | 807.81     | 0.04195895 %              | 99.95804105 %         | 699,431                      | 699,137                    | 0.06865546 %                         | 1,366.16                                      |
| CITY OF WEST BEND, IOWA                  | 0.00       | 0.00000000 %              | 100.00000000 %        | 84,976                       | 84,976                     | 0.00834467 %                         | 166.05  |
| CITY OF WHITTEMORE                       | 0.00       | 0.00000000 %              | 100.00000000 %        | 61,251                       | 61,251                     | 0.00601487 %                         | 119.69  |
| COMMUNITY UTILITY COMPANY                | 14.64      | 0.00076043 %              | 99.99923957 %         | 96,605                       | 96,604                     | 0.00948654 %                         | 188.77  |
| COON RAPIDS MUNICIPAL UTILITIES          | 0.00       | 0.00000000 %              | 100.00000000 %        | 75,482                       | 75,482                     | 0.00741235 %                         | 147.50  |
| DCP OPERATING COMPANY, LP                | 30,840.62  | 1.60191146 %              | 98.39808854 %         | 473,641                      | 466,053                    | 0.04576654 %                         | 910.70  |
| DIRECT ENERGY BUSINESS MARKETING, LLC    | 9,536.71   | 0.49535207 %              | 99.50464793 %         | 145,700                      | 144,978                    | 0.01423688 %                         | 283.30  |
| DOOLEY'S NATURAL GAS OF IA, LLC          | 37.54      | 0.00194989 %              | 99.99805011 %         | 11,284                       | 11,283                     | 0.00110799 %                         | 22.05   |
| EDF ENERGY SERVICES, LLC                 | 1,590.48   | 0.08261209 %              | 99.91738791 %         | 57,627                       | 57,579                     | 0.00565427 %                         | 112.51  |
| EMMETSBURG MUNICIPAL GAS WORKS           | 0.00       | 0.00000000 %              | 100.00000000 %        | 225,038                      | 225,038                    | 0.02209880 %                         | 439.74  |
| ENCORE ENERGY SERVICES, INC.             | 10,466.01  | 0.54362141 %              | 99.45637859 %         | 8,041,424                    | 7,997,709                  | 0.78537740 %                         | 15,628.01                                     |
| ETC TEXAS PIPELINE, LTD.                 | 99,226.03  | 5.15395976 %              | 94.84604024 %         | 541,666                      | 513,748                    | 0.05045021 %                         | 1,003.89                                      |
| ETHANOL PRODUCTS, LLC                    | 49,781.56  | 2.58573438 %              | 97.41426562 %         | 15,679,642                   | 15,274,208                 | 1.49993177 %                         | 29,846.72                                     |
| EXELON GENERATION COMPANY, LLC           | 98,468.22  | 5.11459789 %              | 94.88540211 %         | 3,891,004                    | 3,691,994                  | 0.36255491 %                         | 7,214.38                                      |
| GOLDEN SPREAD ELECTRIC COOPERATIVE, INC. | 329,497.06 | 17.11460782 %             | 82.88539218 %         | 41,272,857                   | 34,209,169                 | 3.35935057 %                         | 66,846.78                                     |
| GRAETTINGER MUNICIPAL GAS                | 0.00       | 0.00000000 %              | 100.00000000 %        | 46,209                       | 46,209                     | 0.00453774 %                         | 90.29   |
| GRANITE FALLS ENERGY LLC                 | 1,015.50   | 0.05274671 %              | 99.94725329 %         | 1,338,746                    | 1,338,039                  | 0.13139583 %                         | 2,614.61                                      |
| GREATER MINNESOTA GAS, INC.              | 120.80     | 0.00627455 %              | 99.99372545 %         | 1,121,563                    | 1,121,492                  | 0.11013085 %                         | 2,191.46                                      |
| GREAT PLAINS NATURAL GAS CO.             | 16,357.74  | 0.84964735 %              | 99.15035265 %         | 3,562,502                    | 3,532,233                  | 0.34686633 %                         | 6,902.20                                      |
| GREAT RIVER ENERGY                       | 0.00       | 0.00000000 %              | 100.00000000 %        | 712,742                      | 712,742                    | 0.06999148 %                         | 1,392.74                                      |
| GREEN PLAINS ENERGY SERVICES             | 4,854.32   | 0.25214120 %              | 99.74785880 %         | 1,184,729                    | 1,181,741                  | 0.11604732 %                         | 2,309.19                                      |
| GUARDIAN ENERGY LLC                      | 11,221.18  | 0.58284616 %              | 99.41715384 %         | 3,041,671                    | 3,023,942                  | 0.29695200 %                         | 5,908.96                                      |
| GUTHRIE CENTER MUNICIPAL UTILITIES       | 0.00       | 0.00000000 %              | 100.00000000 %        | 134,090                      | 134,090                    | 0.01316768 %                         | 262.02  |
| HARLAN MUNICIPAL UTILITIES               | 206.53     | 0.01072750 %              | 99.98927250 %         | 493,027                      | 492,974                    | 0.04841019 %                         | 963.30  |
| HARTREE PARTNERS, LP                     | 669.10     | 0.03475413 %              | 99.96524587 %         | 5,843,860                    | 5,841,829                  | 0.57366935 %                         | 11,415.29                                     |
| HIBBING PUBLIC UTILITIES COMMISSION      | 2,624.03   | 0.13629634 %              | 99.86370366 %         | 1,319,313                    | 1,317,514                  | 0.12938027 %                         | 2,574.50                                      |
| HIGHWATER ETHANOL, LLC                   | 876.93     | 0.04554916 %              | 99.95445084 %         | 1,381,409                    | 1,380,779                  | 0.13559291 %                         | 2,698.12                                      |
| HOMELAND ENERGY SOLUTIONS, LLC           | 104.53     | 0.00542946 %              | 99.99457054 %         | 4,881,971                    | 4,881,705                  | 0.47938488 %                         | 9,539.15                                      |
| INTERSTATE POWER AND LIGHT COMPANY       | 178.22     | 0.00925703 %              | 99.99074297 %         | 22,737,027                   | 22,734,922                 | 2.23257610 %                         | 44,425.41                                     |
| IOWA STATE UNIVERSITY OF SCIENCE AND TEC | 721.17     | 0.03745873 %              | 99.96254127 %         | 137,365                      | 137,313                    | 0.01348418 %                         | 268.32  |
| JO-CARROLL ENERGY, INC. (NFP)            | 2,721.32   | 0.14134974 %              | 99.85865026 %         | 361,539                      | 361,027                    | 0.03545296 %                         | 705.47  |
| KANSAS GAS SERVICE, A DIVISION OF ONE GA | 206.06     | 0.01070309 %              | 99.98929691 %         | 148,393                      | 148,377                    | 0.01457067 %                         | 289.94  |
| KOCH ENERGY SERVICES, LLC                | 24,531.74  | 1.27421807 %              | 98.72578193 %         | 77,515,706                   | 76,527,986                 | 7.51507098 %                         | 149,540.30                                    |
| LAKE PARK MUNICIPAL UTILITIES            | 0.00       | 0.00000000 %              | 100.00000000 %        | 115,670                      | 115,670                    | 0.01135883 %                         | 226.03  |
| LINCOLNWAY ENERGY, LLC                   | 3,112.79   | 0.16168332 %              | 99.83831668 %         | 1,739,112                    | 1,736,300                  | 0.17050518 %                         | 3,392.83                                      |
| LSCP, LLC                                | 56.23      | 0.00292068 %              | 99.99707932 %         | 3,456,225                    | 3,456,124                  | 0.33939240 %                         | 6,753.47                                      |

**Northern Natural Gas Company**  
**Daily Delivery Variance Charge Revenue Credit Report**  
**For the Period November 2019 – October 2020**

Schedule 3

| Shipper Name                             | DDVC Paid  | Percent of<br>Total DDVCs | Inverse DDVCs<br>paid | Scheduled<br>Quantities (SQ) | SQ * Inverse<br>DDVCs paid | Weighted Factor<br>(Payback Percent) | Penalty Credit<br>(h) = (g) * total<br>credit |
|--|------------|---------------------------|-----------------------|------------------------------|----------------------------|--------------------------------------|---|
| (a)                                      | (b)<br>\$  | (c)                       | (d) = 100% - c        | (e)<br>dth                   | (f) = d*e<br>dth           | (g) = f / Sum(f)                     | \$  |
| MADISON GAS AND ELECTRIC COMPANY         | 617.10     | 0.03205317 %              | 99.96794683 %         | 11,363,501                   | 11,359,858                 | 1.11554143 %                         | 22,197.85                                     |
| MANILLA MUNICIPAL GAS DEPT               | 0.00       | 0.00000000 %              | 100.00000000 %        | 31,332                       | 31,332                     | 0.00307681 %                         | 61.22   |
| MANNING MUNICIPAL GAS DEPT               | 1,013.01   | 0.05261737 %              | 99.94738263 %         | 245,391                      | 245,261                    | 0.02408470 %                         | 479.25  |
| MARQUIS ENERGY-WISCONSIN, LLC            | 16,156.24  | 0.83918112 %              | 99.16081888 %         | 2,097,290                    | 2,079,689                  | 0.20422608 %                         | 4,063.84                                      |
| MAYO CLINIC                              | 2,307.79   | 0.11987033 %              | 99.88012967 %         | 2,233,877                    | 2,231,199                  | 0.21910441 %                         | 4,359.90                                      |
| METROPOLITAN UTILITIES DISTRICT          | 819.63     | 0.04257290 %              | 99.95742710 %         | 32,846,996                   | 32,833,012                 | 3.22421154 %                         | 64,157.69                                     |
| MIDAMERICAN ENERGY COMPANY               | 850.77     | 0.04419036 %              | 99.95580964 %         | 85,265,321                   | 85,227,641                 | 8.36937969 %                         | 166,539.95                                    |
| MIDWEST NATURAL GAS, INC.                | 58.25      | 0.00302560 %              | 99.99697440 %         | 2,279,972                    | 2,279,903                  | 0.22388715 %                         | 4,455.07                                      |
| MILLE LACS CORPORATE VENTURES            | 31.04      | 0.00161227 %              | 99.99838773 %         | 105,924                      | 105,922                    | 0.01040157 %                         | 206.98  |
| MINNESOTA ENERGY RESOURCES CORPORATION   | (5,291.49) | (0.27484851%)             | 100.27484851 %        | 69,939,965                   | 70,132,193                 | 6.88700221 %                         | 137,042.55                                    |
| NATIONAL PUBLIC GAS AGENCY               | 0.00       | 0.00000000 %              | 100.00000000 %        | 128,518                      | 128,518                    | 0.01262051 %                         | 251.13  |
| NAVITAS MIDSTREAM MIDLAND BASIN, LLC     | 16,595.71  | 0.86200790 %              | 99.13799210 %         | 118,008                      | 116,990                    | 0.01148845 %                         | 228.61  |
| NEW HEAVEN CHEMICALS IOWA, LLC           | 251.90     | 0.01308409 %              | 99.98691591 %         | 170,275                      | 170,252                    | 0.01671880 %                         | 332.68  |
| NEW ULM PUBLIC UTILITIES COMMISSION      | 259.90     | 0.01349962 %              | 99.98650038 %         | 44,177                       | 44,171                     | 0.00433761 %                         | 86.31   |
| NORTHERN STATES POWER COMPANY, A MINNESO | 3,495.35   | 0.18155411 %              | 99.81844589 %         | 75,958,200                   | 75,820,294                 | 7.44557542 %                         | 148,157.44                                    |
| NORTHERN STATES POWER COMPANY, A WISCONS | 0.00       | 0.00000000 %              | 100.00000000 %        | 9,877,784                    | 9,877,784                  | 0.97000133 %                         | 19,301.79                                     |
| NORTHERN STATES POWER COMPANY (GEN)      | 120,851.99 | 6.27724695 %              | 93.72275305 %         | 75,253,742                   | 70,529,878                 | 6.92605499 %                         | 137,819.64                                    |
| NORTHWEST NATURAL GAS LLC                | 55.52      | 0.00288380 %              | 99.99711620 %         | 271,355                      | 271,347                    | 0.02664636 %                         | 530.23  |
| OCCIDENTAL ENERGY MARKETING, INC.        | 3,678.05   | 0.19104384 %              | 99.80895616 %         | 15,451                       | 15,421                     | 0.00151435 %                         | 30.13   |
| OSAGE MUNICIPAL UTILITIES                | 17.69      | 0.00091885 %              | 99.99908115 %         | 378,694                      | 378,690                    | 0.03718747 %                         | 739.98  |
| PEERLESS CHAIN COMPANY                   | 985.81     | 0.05120456 %              | 99.94879544 %         | 59,720                       | 59,689                     | 0.00586148 %                         | 116.64  |
| PLYMOUTH ENERGY, L.L.C.                  | 25.40      | 0.00131932 %              | 99.99868068 %         | 418,393                      | 418,387                    | 0.04108573 %                         | 817.55  |
| PRESTON MUNICIPAL NATURAL GAS DEPARTMENT | 0.00       | 0.00000000 %              | 100.00000000 %        | 60,957                       | 60,957                     | 0.00598600 %                         | 119.11  |
| QUAD COUNTY CORN PROCESSORS COOPERATIVE  | 1,819.06   | 0.09448491 %              | 99.90551509 %         | 1,055,607                    | 1,054,609                  | 0.10356292 %                         | 2,060.77                                      |
| RAHR CORPORATION                         | 360.99     | 0.01875040 %              | 99.98124960 %         | 342,719                      | 342,654                    | 0.03364872 %                         | 669.57  |
| REDFIELD ENERGY, LLC                     | 678.98     | 0.03526731 %              | 99.96473269 %         | 1,344,998                    | 1,344,523                  | 0.13203256 %                         | 2,627.28                                      |
| REG ALBERT LEA, LLC                      | 309.80     | 0.01609151 %              | 99.98390849 %         | 131,446                      | 131,424                    | 0.01290588 %                         | 256.81  |
| ROCK RAPIDS MUNICIPAL UTILITIES          | 0.00       | 0.00000000 %              | 100.00000000 %        | 161,803                      | 161,803                    | 0.01588910 %                         | 316.17  |
| SEQUENT ENERGY MANAGEMENT, L.P.          | 3,730.31   | 0.19375831 %              | 99.80624169 %         | 2,162,976                    | 2,158,785                  | 0.21199333 %                         | 4,218.40                                      |
| SHEEHAN'S GAS COMPANY                    | 344.71     | 0.01790479 %              | 99.98209521 %         | 200,569                      | 200,533                    | 0.01969240 %                         | 391.85  |
| SIOUXLAND ENERGY COOPERATIVE             | 0.00       | 0.00000000 %              | 100.00000000 %        | 827                          | 827                        | 0.00008121 %                         | 1.62  |
| SIOUXLAND ETHANOL, LLC                   | 330.20     | 0.01715112 %              | 99.98284888 %         | 1,698,106                    | 1,697,814                  | 0.16672584 %                         | 3,317.63                                      |
| SOUTHWESTERN PUBLIC SERVICE COMPANY, A N | 250,011.73 | 12.98601180 %             | 87.01398820 %         | 43,856,137                   | 38,160,973                 | 3.74741890 %                         | 74,568.84                                     |
| ST. PAUL PARK REFINING CO. LLC           | 5,812.56   | 0.30191373 %              | 99.69808627 %         | 6,393,985                    | 6,374,680                  | 0.62599547 %                         | 12,456.51                                     |
| SUPERIOR WATER, LIGHT & POWER COMPANY    | 264.91     | 0.01375985 %              | 99.98624015 %         | 1,788,442                    | 1,788,195                  | 0.17560128 %                         | 3,494.24                                      |
| SYMMETRY ENERGY SOLUTIONS, LLC (MN)      | 47,250.06  | 2.45424419 %              | 97.54575581 %         | 5,565,646                    | 5,429,051                  | 0.53313442 %                         | 10,608.69                                     |



**Northern Natural Gas Company**  
**Daily Delivery Variance Charge Revenue Credit Report**  
**For the Period November 2019 – October 2020**

Schedule 3

| Shipper Name                                | DDVC Paid             | Percent of<br>Total DDVCs | Inverse DDVCs<br>paid | Scheduled<br>Quantities (SQ) | SQ * Inverse<br>DDVCs paid | Weighted Factor<br>(Payback Percent) | Penalty Credit<br>(h) = (g) * total<br>credit |
|---|-----------------------|---------------------------|-----------------------|------------------------------|----------------------------|--------------------------------------|---|
| (a)   | (b)<br>\$             | (c)                       | (d) = 100% - c        | (e)<br>dth                   | (f) = d*e<br>dth           | (g) = f / Sum(f)                     | \$  |
| TENASKA MARKETING VENTURES                  | 37,962.28             | 1.97182195 %              | 98.02817805 %         | 32,920,843                   | 32,271,702                 | 3.16909073 %                         | 63,060.85                                     |
| TEXAS GAS SERVICE, A DIVISION OF ONE GAS    | 0.00                  | 0.00000000 %              | 100.00000000 %        | 27,354                       | 27,354                     | 0.00268617 %                         | 53.45   |
| TOWN OF BROOKLYN                            | 0.00                  | 0.00000000 %              | 100.00000000 %        | 83,678                       | 83,678                     | 0.00821720 %                         | 163.51  |
| TOWN OF SABULA                              | 0.00                  | 0.00000000 %              | 100.00000000 %        | 23,156                       | 23,156                     | 0.00227393 %                         | 45.25   |
| UNITED ETHANOL LLC                          | 2,357.78              | 0.12246689 %              | 99.87753311 %         | 1,654,910                    | 1,652,883                  | 0.16231360 %                         | 3,229.83                                      |
| UNITED STATES GYPSUM COMPANY                | 2,829.39              | 0.14696307 %              | 99.85303693 %         | 140,446                      | 140,239                    | 0.01377151 %                         | 274.03  |
| UPPER MICHIGAN ENERGY RESOURCES CORPORATION | 77,967.73             | 4.04976943 %              | 95.95023057 %         | 6,584,999                    | 6,318,321                  | 0.62046100 %                         | 12,346.38                                     |
| VALENT BIOSCIENCES LLC                      | 9.46                  | 0.00049137 %              | 99.99950863 %         | 128,303                      | 128,302                    | 0.01259929 %                         | 250.71  |
| VALERO RENEWABLE FUELS COMPANY, LLC         | 42,044.60             | 2.18386422 %              | 97.81613578 %         | 3,155,018                    | 3,086,116                  | 0.30305751 %                         | 6,030.46                                      |
| VILLAGE OF GOODHUE                          | 12.43                 | 0.00064563 %              | 99.99935437 %         | 82,961                       | 82,960                     | 0.00814670 %                         | 162.11  |
| VIROQUA GAS COMPANY A DIVISION OF MADISO    | 74.72                 | 0.00388108 %              | 99.99611892 %         | 322,561                      | 322,548                    | 0.03167431 %                         | 630.28  |
| WALL LAKE MUNICIPAL GAS                     | 216.33                | 0.01123653 %              | 99.98876347 %         | 36,311                       | 36,306                     | 0.00356526 %                         | 70.94   |
| WATERTOWN MUNICIPAL UTILITIES               | 149.93                | 0.00778761 %              | 99.99221239 %         | 1,001                        | 1,000                      | 0.00009820 %                         | 1.95  |
| WESTERN MINNESOTA MUNICIPAL POWER AGENCY    | 13,549.80             | 0.70379843 %              | 99.29620157 %         | 832,687                      | 826,826                    | 0.08119456 %                         | 1,615.67                                      |
| WESTROCK SHARED SERVICES, LLC               | 1,241.98              | 0.06451044 %              | 99.93548956 %         | 2,476,353                    | 2,474,755                  | 0.24302168 %                         | 4,835.82                                      |
| WISCONSIN ELECTRIC POWER COMPANY (GAS OP    | 919.16                | 0.04774265 %              | 99.95225735 %         | 7,693,189                    | 7,689,516                  | 0.75511276 %                         | 15,025.78                                     |
| WISCONSIN GAS LLC                           | 8,640.24              | 0.44878798 %              | 99.55121202 %         | 19,750,762                   | 19,662,122                 | 1.93082623 %                         | 38,420.97                                     |
| WISCONSIN POWER AND LIGHT COMPANY           | 705.34                | 0.03663650 %              | 99.96336350 %         | 13,100,705                   | 13,095,905                 | 1.28602177 %                         | 25,590.19                                     |
| WOODBINE MUNICIPAL NATURAL GAS SYSTEMS      | 0.00                  | 0.00000000 %              | 100.00000000 %        | 57,787                       | 57,787                     | 0.00567470 %                         | 112.92  |
| WORLD FUEL SERVICES, INC.                   | 11,853.50             | 0.61568988 %              | 99.38431012 %         | 1,442,052                    | 1,433,173                  | 0.14073801 %                         | 2,800.51                                      |
| WTG GAS MARKETING, INC.                     | 246,535.80            | 12.80546640 %             | 87.19453360 %         | 3,985,377                    | 3,475,030                  | 0.34124898 %                         | 6,790.42                                      |
| XTO ENERGY INC.                             | 28,818.44             | 1.49687617 %              | 98.50312383 %         | 336,572                      | 331,533                    | 0.03255664 %                         | 647.83  |
|   | <b>\$1,925,238.74</b> | <b>100%</b>               |                       | <b>1,046,467,107</b>         | <b>1,018,326,855</b>       | <b>100%</b>                          | <b>\$1,989,872.11</b>                         |

**Northern Natural Gas Company**  
**Annual Penalty Revenue Crediting**  
**Receipt Point Penalty**  
**Charges and Interest Calculation**  
**For the Period November 2019 - October 2020**

| Month Invoiced | Penalty Amount Collected | FERC Interest | Days for First Invoice Month | Days: Full Month | Partial Month Interest Rate | Full Month Interest Rate | Interest for First Month Billed | Interest for Full Month | Total Interest | Cumulative Balance |
|----------------|--------------------------|---------------|------------------------------|------------------|-----------------------------|--------------------------|---------------------------------|-------------------------|----------------|--------------------|
| (a)            | (b)                      | (c)           | (d)                          | (e)              | (f)                         | (g)                      | (h)                             | (i)                     | (j)            | (k)                |
|                | \$                       |               | 1/                           |                  | $d * c / 365$               | $e * c / 365$            | 2/                              | 3/                      | $i + h$        | 4/                 |
|                |                          |               |                              |                  |                             |                          | \$                              | \$                      | \$             | \$                 |
| 201911         | 0.00                     | 5.42%         |                              |                  |                             |                          |                                 |                         |                |                    |
| 201912         | 0.00                     | 5.42%         | 9                            |                  | 0.0013                      | 0.0000                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202001         | 0.00                     | 4.96%         | 8                            | 31               | 0.0011                      | 0.0042                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202002         | 0.00                     | 4.96%         | 6                            | 29               | 0.0008                      | 0.0039                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202003         | 0.00                     | 4.96%         | 9                            | 31               | 0.0012                      | 0.0042                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202004         | 0.00                     | 4.75%         | 8                            | 30               | 0.0010                      | 0.0039                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202005         | 0.00                     | 4.75%         | 6                            | 31               | 0.0008                      | 0.0040                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202006         | 0.00                     | 4.75%         | 9                            | 30               | 0.0012                      | 0.0039                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202007         | 0.00                     | 3.43%         | 9                            | 31               | 0.0008                      | 0.0029                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202008         | 1,027.30                 | 3.43%         | 8                            | 31               | 0.0008                      | 0.0029                   | 0.00                            | 0.00                    | 0.00           | 0.00               |
| 202009         | 0.00                     | 3.43%         | 7                            | 30               | 0.0007                      | 0.0028                   | 0.72                            | 0.00                    | 0.72           | 1,028.02           |
| 202010         | 0.00                     | 3.25%         | 6                            | 31               | 0.0005                      | 0.0028                   | 0.00                            | 2.88                    | 2.88           | 1,028.02           |
| 202011         | 0.00                     | 3.25%         | 8                            | 30               | 0.0007                      | 0.0027                   | 0.00                            | 2.78                    | 2.78           | 1,028.02           |
| 202012         | 0.00                     | 3.25%         |                              | 31               |                             | 0.0028                   | 0.00                            | 2.88                    | 2.88           | 1,036.55           |
| 202101         | 0.00                     | 3.25%         |                              | 31               |                             | 0.0028                   |                                 | 2.90                    | 2.90           | 1,036.55           |
| 202102         | 0.00                     | 3.25%         |                              | 11               |                             | 0.0010                   |                                 | 1.04                    | 1.04           | 1,036.55           |
| Totals         | \$1,027.30               |               |                              |                  |                             |                          | \$0.72                          | \$12.47                 | \$13.19        | <b>\$1,040.49</b>  |

## Footnotes

1/ The first month of interest is based on days from invoice due date to the end of the month.

2/ Penalty Amount Collected from prior month \* Partial Month Interest Rate.

3/ Cumulative Balance from prior month \* Full Month Interest Rate.

4/ Penalty Amount Collected from prior month plus Cumulative Balance from prior month plus Total Interest from previous quarters.

**Northern Natural Gas Company  
Annual Penalty Revenue Crediting  
Receipt Point Penalty  
For the Period November 2019 – October 2020**

| Shipper<br>(a)                   | Receipt<br>Penalty<br>Paid<br>(b) | Percent of<br>Receipt<br>Penalties<br>Paid<br>(c) | Scheduled<br>Volume<br>(d) | Scheduled<br>Volume Factor at<br>Point<br>(e) | Weighted Factor<br>(Payback<br>Percent)<br>(f) | Receipt<br>Penalty<br>Credit<br>(g)      |
|----------------------------------|-----------------------------------|---|----------------------------|---|--|--|
|                                  |                                   | c / Sum(c)  |                            | e / Sum(e)                                    | f * (1-d)                                      | Total from<br>Schedule 4<br>* g / Sum(g) |
|                                  | \$                                |   | Dth                        |   |  | \$                                       |
| Centerpoint Energy Minnesota Gas | 0.00                              | 0.0000%   | 1,016,238                  | 100.00000000%                                 | 100.00000000%                                  | 1,040.49 1/                              |
| World Fuel Services, Inc.        | 0.00                              | 0.0000%   |                            | 0.00000000%                                   | 0.00000000%                                    | - 2/                                     |
| Reeve Agri Energy, Inc.          | 1,027.30                          | 100.0000%   |                            |   |  |  |
| Totals                           | \$ 1,027.30                       | 100.0000%   | 1,016,238                  | 100.00000000%                                 | 100.00000000%                                  | \$ 1,040.49                              |

Per Tariff Sheet No. 306, section 57.2.b, Receipt Penalty Revenue shall be credited to "shippers that operate contiguous, onshore receipt points that do not have an Operator Balancing Agreement (OBA)."

1/ CenterPoint Energy Minnesota Gas is the point operator for Waterville, POI 922.

2/ World Fuel Services, Inc. is operator of the Dodge City Biogas Ford Co., POI 79338, which incurred 100% of receipt point penalties.