



# City of Flandreau City Council Meeting

## Agenda

6:30 p.m., Monday  
August 5<sup>th</sup>, 2019  
City Council Chambers  
1005 W. Elm Avenue  
Flandreau, SD

Meeting called by: Mayor Bonrud  
Type of meeting: Regular

### Agenda topics

#### **Pledge of Allegiance**

Finance Officer

2

#### **Adopt Agenda**

5

Public Hearing on Integrated Resource Plan (IRP)

2

#### **Approve Minutes – July 15<sup>th</sup>, 2019**

2

#### **Approve Bills**

Public Comments

#### **Department and Administrative Reports**

5

Mayor's Report

Mayor Bonrud

5

City Administrator's Report

Jeff Pederson

2

#### **Approve Administrative Reports**

#### **Old Business**

10

Update on Zandt Building Repair

15

Action Regarding Proposal to Add Dedicated Bicycle Lane and Road Share on First Avenue

**New Business**

- 2 Resolution Adopting an Integrated Resource Plan (IRP)
- 2 Pay Request No. Three – Community Safe Room
- 2 Pay Increase – Taylor White
- 2 Aquatic Center – Pay Rate Correction for Rita Parsley

Council Comments

**Executive Session - Personnel**

**Special notes:** Other business properly referred to the City Council.

Jeff Pederson  
City Administrator

**Distribution:**

Mayor Bonrud  
Alderman Bjerke  
Alderman Pesall  
Alderman Sutton  
Alderman Tufty  
Alderman Unger  
Alderman Whitman

Cc:  
Newspaper: Moody County Enterprise  
Radio: Carol Kiecksee  
City Attorney: Corey Bruning

**NOTICE OF PUBLIC HEARING ON THE CITY OF FLANDREAU  
INTEGRATED RESOURCE PLAN**

A Public Hearing on the City of Flandreau Integrated Resource Plan (IRP) for Flandreau Municipal Electric is scheduled for August 5<sup>th</sup>, 2019 at 6:30 p.m. at the City Office, 1005 W. Elm Avenue.

The City of Flandreau has prepared an IRP as required by Western Area Power Administration (Western) under its Energy Planning and Management rules. An IRP must be completed by the City of Flandreau to renew its long-term power supply agreement with Western.

An IRP involves planning for future energy resources by evaluating a full range of alternatives, including traditional energy sources, power purchases, energy conservation and efficiency, and renewal resources, in order to provide adequate and reliable service to consumers at the lowest system cost. An IRP should support municipal utility goals and schedules.

The IRP Summary Report can be viewed at the Flandreau City Office, 1005 W. Elm Avenue, Flandreau, SD, during business hours. In addition to commenting on the IRP at the Public Hearing, written comments can be submitted to the City of Flandreau during business hours before the Public Hearing.

Dated at Flandreau, South Dakota this 24<sup>th</sup> day of July, 2019.

Jeff Pederson  
City Administrator

Publish: July 24<sup>th</sup>, 2019 "at approximate cost"

**CITY OF FLANDREAU  
1005 W. Elm Avenue  
Flandreau, SD 57028-1404**

**COUNCIL PROCEEDINGS  
July 15<sup>th</sup>, 2019**

The City Council of the City of Flandreau, South Dakota, met in regular session on Monday, July 15<sup>th</sup>, 2019 at 6:33 p.m. at the City Council Chambers, 1005 W. Elm Avenue, Flandreau, SD.

Present: Mayor Mark Bonrud. Aldermen: Brad Bjerke, Bob Pesall, Dan Sutton, Karen Tufty, Jason Unger, and Donald Whitman. Absent: None. Also present were Jeff Pederson and Karen Gundvaldson, City of Flandreau; Chief Zach Weber, Flandreau Police Department; Corey Bruning, City Attorney; Jim Zandt, Dave Obenauer, Chad Achterberg, Kyle Haug, and Don Duncan, Zandt Building; Bruce Allen, Skateboard Park; Kelley Ramsdell, Healthy Hometown Committee; and Brenda Wade Schmidt, Moody County Enterprise.

The proposed agenda was reviewed. Motion by Sutton and seconded by Pesall to adopt the proposed agenda. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

Motion by Bjerke and seconded by Tufty to approve the minutes of July 5<sup>th</sup>, 2019. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

Motion by Whitman and seconded by Tufty to approve the minutes of July 8<sup>th</sup>, 2019. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

Motion by Whitman and seconded by Sutton to allow the following claims for the City and to pay them: (20281) A-1 Portable Toilets, rentals, 288.00; Big Bear's BBQ, vouchers/car show, 160.00; Big Sioux Comm Water System, water usage, 134.20; Bob's Electric, repairs, 2,287.68; Bruning & Lewis Law Firm, professional fees, 1,312.50; Butler Machinery Co., repairs, 69.94; Chesterman Co., supplies, 304.20; Cintas, rentals, 263.47; Ekern Home Equipment, repairs/supplies, 799.20; Elifeguard, supplies, 1,128.00; Elite Business Systems, contract/supplies, 272.47; Gall, supplies, 135.89; Hawkins, supplies, 1,687.26; Leah Parsons, vouchers/car show, 50.00; Office Peeps, supplies, 39.90; Pitney Bowes-Leasing, qtlly charges, 74.97; Postmaster, fire dept. box rent/postage, 415.00; Powers Oil Co., gas/oil, 1,009.19; Rausch Granite, repairs, 75.00; River's Edge Cooperative, gas/oil, 2,129.95; SD Supplemental Retirement Plan, retirement, 292.31; Waxdahl NAPA Plus, repairs/supplies, 326.77; (20303). The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

Public Comments: Bruce Allen addressed Council regarding his donation of equipment for a skateboard park with a possible location at the Aquatic Center or Duncan Park. The equipment takes a space approximately 50' x 60' and would need a 5-6" concrete pad underneath. Discussion was held and comments were favorable. The item will be placed on a future agenda once cost estimates are obtained.

Mayor Bonrud extended congratulations to those involved with making the recent Sesquicentennial Celebration such a success. Events were well attended. In addition the recent Airport Fly-In was well received and enjoyed by many.

City Administrator Pederson shared that construction on Safe Room #2 is progressing with side walls up. Phase 4 of the Electric Distribution Improvement Project is under way and progressing well. The City Park closed this past weekend due to flooding; it is unlikely that the campground will be utilized this summer due to the extensive clean-up needed once water recedes. The Community Appearance Codes Task Force continues to meet. Members have been reviewing national code and the appearance of other cities; specific portions of the City code will be reviewed at the next meeting. The committee regarding the Flandreau Golf Course met earlier this evening; possible scenarios for managing the course are ongoing. The FSST Pow Wow has been relocated to an area near the Casino due to flooding. Alderman Unger then indicated Riverside Park Days scheduled for the first weekend in August has been cancelled; the Ministerial Association will still hold church services at the park at a location to be determined when the event is near.

Motion by Pesall and seconded by Tufty to approve the Administrative Reports. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

Old Business: City Administrator Pederson requested City Attorney Corey Bruning update those present on recent events and the abatement process of the Zandt building. The motion made at the July 8<sup>th</sup> meeting was read concerning the action required by Mr. Zandt tonight. When asked, Mr. Zandt indicated he would like Dave Obenauer, High Rise of Sioux Falls, Inc. to update Council on progress made in the past week. Mr. Obenauer introduced Chad Achterberg, who would be working on the project should Council allow it. Both indicated work would be complete in 8-12 weeks with Wind Street open for thru traffic in 7-10 days. Requirements stipulated in the July 8<sup>th</sup> motion were not met; Mr. Obenauer shared a letter from an engineer that indicates it would be two weeks before he would be able to provide any opinion. Documents provided by Mr. Obenauer showing past projects were circulated for Council review. Concern was expressed regarding Mr. Zandt's lack of progress in the past four months, maintenance of the building over the past several years, cost of repairs, and future work to repair/update the interior. Comments were heard from nearby business owners, Don Duncan and Kyle Haug.

Mayor Bonrud left the meeting at 7:35 p.m. and Council President Dan Sutton took over chairing the meeting; the Zandt building discussion continued. Discussed was extended delays in abating the nuisance should Council allow repairs to begin and the possibility of work halting due to unforeseen issues. The asbestos removal and demolition would more than likely have to be re-bid which would delay resolving the nuisance. The City Administrator asked Mr. Obenauer if he had made arrangements with Mr. Zandt to place into escrow the amount of money associated with the restoration contract, to which Mr. Obenauer replied that he had not.

Motion by Pesall and seconded by Unger to extend the deadline to mitigate the Zandt building nuisance under the following conditions: (1) Work must be complete within 12 weeks with Wind Street open for two-way traffic within 2 weeks, (2) Zandt assumes the costs incurred by the City for fencing and other expenses incurred by the City as a direct result of the collapse, (3) Zandt provides

final approval of the repairs as safe, by a structural engineer, and (4) Funds for the project in the amount of \$127,000.00 must be deposited into escrow with Bruning and Lewis Law Firm on July 16<sup>th</sup>, 2019 to ensure payment to the contractor and City costs. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, and Whitman. Nays: Unger. Absent: None. Motion carried.

Motion by Bjerke and seconded by Tufty to table awarding the bid for asbestos removal of the Zandt building until acknowledgment of receipt of escrow on July 16<sup>th</sup>, 2019 in the amount of \$127,000.00. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

Motion by Bjerke and seconded by Tufty to table awarding the bid for demolition of the Zandt building until acknowledgment of receipt of escrow on July 16<sup>th</sup>, 2019 in the amount of \$127,000.00. The following members voted aye: Bjerke, Pesall, Sutton, Tufty, Unger, and Whitman. Nays: None. Absent: None. Motion carried.

New Business: Kelley Ramsdell, representing the Healthy Hometown Committee working on the prospect of bicycle lanes in the city, introduced committee members present. After numerous meetings held throughout the year, an event to test a simulated bicycle lane on Pipestone Avenue, and a survey conducted of community members, the committee is proposing a bicycle lane and road share on 1<sup>st</sup> Avenue as the first phase of creating a bike friendly community. The committee recommendation is to have a dedicated bicycle lane next to the curb on the north side (westbound lane) of 1<sup>st</sup> Avenue from Lindsay Street to Veterans Street; the south side (eastbound lane) on 1<sup>st</sup> Avenue would be designated as a shared road for bicycles and vehicles. Vehicle parking would be removed from the north side of 1<sup>st</sup> Avenue. Rules of shared lanes were discussed; education for motorist and bicyclists is needed and would be provided by the Flandreau Police Department and the Healthy Hometown Committee. Action on the proposed Bicycle Lane and Road Share on 1<sup>st</sup> Avenue is deferred until the August 5<sup>th</sup> Council meeting.

There were no Council Comments.

The Council President declared the meeting adjourned at 8:17 p.m.

Dan Sutton  
Council President

ATTEST:

Jeff Pederson  
City Administrator

**CITY OF FLANDREAU**  
**Council Approval Report for First National Bank--500330**  
 (Council Approval Report)

Vendor	Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
	1170	07/16/19	ADAM LABRUNE, 1404 131ST ST, HOLLAND, MN, 56139-4708	08/06/19	\$225.00	\$225.00	101-08-4288	Trees/Trimming	\$2,500.00	\$2,500.00
	127	07/16/19	AHLERS AUTOMOTIVE, 1102 W. 1ST AVE., FLANDREAU, SD, 57028-1000	08/06/19	\$587.36	\$587.36	603-31-4250	Repairs	\$2,000.00	(\$5,587.92)
	97935	07/16/19	2004 FORD F250/LABOR/OIL/FUEL PUMP/FUEL FILTER	08/06/19	\$587.36	\$587.36				
	01-00660-04	07/24/19	ALLISON BENDER, 20592 411TH AVE, CAVOUR, SD, 57324-6605	08/06/19	\$78.91	\$78.91	603-31-3441	Utility Sales	\$2,665,000.00	\$1,097,089.91
	223	07/04/19	AUSTREIM LANDSCAPING INC, 1222 WESTERN AVE, BOX 401, BROOKINGS, SD, 57006-0401	08/06/19	\$542.45	\$542.45	602-31-4252	Repair-Street	\$4,000.00	\$4,000.00
	26313	07/04/19	PIPE/SPRINKLER HEAD/FITTINGS/AQUATIC CENTER/HOSPITAL/WEST FIRST AVE	08/06/19	\$542.45	\$542.45	604-31-4252	Repair-Street	\$1,200.00	\$1,200.00
	8	06/29/19	BANNER ASSOCIATES, INC, P.O. BOX 298, BROOKINGS, SD, 57006-0298	08/06/19	\$1,829.63	\$1,829.63	101-13-5501	General Fund - Communi	\$223,688.00	\$110,070.59
	31452	08/01/19	PROJECT #22920.00/FLANDREAU SAFE HOUSE #2/PROFESSIONAL SERVICES THROUGH JULY 29,2019	08/06/19	\$1,642.50	\$1,642.50	101-13-5501	General Fund - Communi	\$223,688.00	\$110,070.59
	13	06/04/19	BOOSTER PUBLISHING, P.O. BOX 285, FLANDREAU, SD, 57028-0285	08/06/19	\$998.28	\$998.28	101-01-4235	Promoting the City	\$7,500.00	(\$35,676.24)
	29595	07/18/19	YARD OF THE WEEK SIGNS#7350 BANNERS	08/06/19	\$758.58	\$758.58	603-31-4260	Supplies	\$15,000.00	\$10,280.78
	14	07/18/19	BORDER STATES ELECTRIC SUPPLY, NW 7235, P.O. BOX 1450, MINNEAPOLIS, MN, 55485-7235	08/06/19	\$758.58	\$758.58				
	98125191	07/18/19	HT SHINK/WALLTUBING/CODING TAPE/PLSTC TAPE	08/06/19	\$758.58	\$758.58				
	1719	07/11/19	BRITTANY HO, 102 W BRIDGE AVE, FLANDREAU, SD, 57028-1111	08/06/19	\$400.00	\$400.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	7-2019	07/11/19	SOCCER CAMP-SUMMER REC-2019	08/06/19	\$400.00	\$400.00				
	1602	07/29/19	BRUCE CLARK, 708 S CRESCENT ST, FLANDREAU, SD, 57028-2033	08/06/19	\$100.00	\$100.00	101-00-2200	Customer Deposits	\$0.00	(\$1,600.00)
	7-2019	07/29/19	JAPANESE GARDENS DEPOSIT REFUND/RENTAL REFUND	08/06/19	\$75.00	\$75.00	101-08-3434	Rentals/Lease	\$11,000.00	\$10,377.00
	7-2019	07/29/19	JAPANESE GARDENS DEPOSIT REFUND/RENTAL REFUND	08/06/19	\$75.00	\$75.00				



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Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
1030		DELTA DENTAL OF SOUTH DAKOTA, PO BOX 1157, PIERRE, SD, 57501-1157							
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$931.70	\$931.70	101-00-2158	Dental Insurance Payabl	\$0.00	(\$872.50)
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$11.16	\$11.16	211-00-2158	Dental Insurance Payabl	\$0.00	(\$11.16)
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$124.36	\$124.36	602-00-2158	Dental Insurance Payabl	\$0.00	(\$124.36)
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$298.48	\$298.48	603-00-2158	Dental Insurance Payabl	\$0.00	(\$298.48)
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$124.40	\$124.40	604-00-2158	Dental Insurance Payabl	\$0.00	(\$124.40)
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$5.36	\$5.36	606-00-2158	Dental Insurance Payabl	\$0.00	(\$5.36)
1748879	07/19/19	DENTAL INSURANCE	08/06/19	\$8.04	\$8.04	612-00-2158	Dental Insurance Payabl	\$0.00	(\$8.04)
1728		DEREK GENZLINGER, 4404 W KOEGL DR, SIOUX FALLS, SD, 57107-6852			\$1,503.50				
8-2019	08/01/19	SUMMER REC-FOOTBALL-DEREK GENZLINGER	08/06/19	\$400.00	\$400.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
25		DGR ENGINEERING, 1302 S. UNION ST., P.O. BOX 511, ROCK RAPIDS, IA, 51246-0511			\$400.00				
235469	07/12/19	PROJECT #416611-PHASE 4-ELECTRIC DIST. IMPROVEMENTS/PROFESSION FEES THROUGH JUNE 30, 2019	08/06/19	\$1,243.50	\$1,243.50	603-31-5301	Electric Distribution Imp (	\$0.00	(\$557,946.73)
54		DONALD JOHNSTON, 310 W. 3RD AVE., FLANDREAU, SD, 57028-1604			\$1,243.50				
7-2019	07/09/19	MRES ANNUAL MEETING-D JOHNSTON	08/06/19	\$568.40	\$568.40	603-31-4270	Travel/Conference	\$1,500.00	\$822.82
1715		DUSTY'S CUSTOM, 100 N WATER ST, FLANDREAU, SD, 57028-1600			\$568.40				
83	07/25/19	FIX HANDLE AND REWELD BASKET	08/06/19	\$204.84	\$204.84	602-31-4250	Repairs	\$7,500.00	\$383.47
32		ENG SERVICES, 207 S. CRESCENT ST., FLANDREAU, SD, 57028-1717			\$204.84				
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$45.00	\$45.00	101-02-4280	Utilities	\$11,000.00	\$4,815.76
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$45.00	\$45.00	101-04-4280	Utilities	\$5,500.00	\$283.30
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$45.00	\$45.00	101-07-4280	Utilities	\$16,500.00	\$7,275.69
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$75.00	\$75.00	101-08-4280	Utilities	\$6,200.00	\$3,553.95
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$45.00	\$45.00	101-10-4280	Utilities	\$10,000.00	\$3,436.30
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$45.00	\$45.00	603-31-4280	Utilities	\$7,500.00	\$3,099.15
7-2019	07/25/19	DIESEL FUEL ESCALATION-4/1/2011	08/06/19	\$132.58	\$132.58	612-05-4293	Contract/Agreement	\$155,000.00	\$77,194.56
7-2019	07/25/19	HAULING SOLID WASTE	08/06/19	\$12,957.80	\$12,957.80	612-05-4293	Contract/Agreement	\$155,000.00	\$77,194.56
1791		F.R.S., INC. DBA SOLBROS CONSTRUCTION, 20574 GRIESE PLACE, PIERRE, SD, 57501			\$13,390.38				
7-2019	07/24/19	PROJECT #22920 FROM 7/1 TO 7/31/2019/CONTRACT DATE 4/19/2019-SAFE ROOM #2	08/06/19	\$29,494.32	\$29,494.32	101-13-5501	General Fund - Communi	\$223,688.00	\$110,070.59

**CITY OF FLANDREAU**  
**Council Approval Report for First National Bank--500330**  
 (Council Approval Report)

Vendor	Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
					\$29,494.32					
	417		FARMERS IMPLEMENT & IRRIGATION, P.O. BOX 29, BROOKINGS, SD, 57006-0029							
	P06074	07/25/19	CLUTCH	08/06/19	\$296.86	\$296.86	101-08-4250	Repairs	\$6,000.00	\$4,234.58
	222		FLANDREAU CITY BAND, AMY WEIGHT, 805 W 1ST AVE, FLANDREAU, SD, 57028-1008			\$296.86				
	7-2019	07/19/19	SUBSIDY -2019	08/06/19	\$1,000.00	\$1,000.00	101-18-4565	Subsidies-City Band	\$4,000.00	\$1,000.00
	1814		FLANDREAU FLICKS, 22648 479TH AVE, FLANDREAU, SD, 57028-6704			\$325.00				
	2	07/11/19	JULY-FLANDREAU FLICKS-SUMMER REC-SHARE-2019	08/06/19	\$325.00	\$325.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	167		FSST, ATTN: RYAN KILLS A HUNDRED, P.O. BOX 283, FLANDREAU, SD, 57028-0283			\$325.00				
	6-2019	JUNE	06/30/19 FSST UTILITY TAXES COLLECTED - JUNE 2019	08/06/19	\$320.50	\$320.50	603-00-2172	Tribal Utility Tax Payable	\$0.00	(\$3,244.22)
	7-2019	JULY	07/31/19 FSST UTILITY TAXES COLLECTED - JULY-2019	08/06/19	\$426.37	\$426.37	603-00-2172	Tribal Utility Tax Payable	\$0.00	(\$3,244.22)
	6-2019	JUNE	06/30/19 FSST UTILITY TAXES COLLECTED - JUNE 2019	08/06/19	\$59.57	\$59.57	612-00-2172	Tribal Utility Tax Payable	\$0.00	(\$531.39)
	7-2019	JULY	07/31/19 FSST UTILITY TAXES COLLECTED - JULY-2019	08/06/19	\$66.12	\$66.12	612-00-2172	Tribal Utility Tax Payable	\$0.00	(\$531.39)
	1820		GIA RENTERIA, 103 W FREDRICK AVE, FLANDREAU, SD, 57028-2029			\$872.56				
	7-2019	GIA	07/18/19 SUMMER REC-ART CAMP-GIA RENTERIA	08/06/19	\$500.00	\$500.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	1817		GLENDA HANSEN, 201 S CRESCENT ST, FLANDREAU, SD, 57028-1717			\$500.00				
	7-2019		07/17/19 BENCH-CEMETERY	08/06/19	\$126.46	\$126.46	101-12-4260	Supplies	\$0.00	(\$536.58)
	1633		GRACE JOHANSON, 22979 478TH AVE, FLANDREAU, SD, 57028-6718			\$126.46				
	7-2019		07/31/19 SUMMER REC-GOLF-2019	08/06/19	\$630.00	\$630.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	1112		GRAHAM TIRE S.F. NORTH, 4515 N CLIFF AVE, SIOUX FALLS, SD, 57104-0449			\$630.00				
	202829727	07/17/19	(4) 245/55R18 103V EAGLES RS-A TIRES	08/06/19	\$540.00	\$540.00	101-02-4250	Repairs	\$8,000.00	(\$4,167.81)
	1742		GREATAMERICA FINANCIAL SVCS., PO BOX 660831, DALLAS, TX, 75266-0831			\$540.00				
	25149165	07/11/19	TOSHIBA COPIER-AGREEMENT 007-1376998-00	08/06/19	\$186.35	\$186.35	101-02-4293	Contract/Agreement	\$60,000.00	\$42,137.33
						\$186.35				

**CITY OF FLANDREAU**  
**Council Approval Report for First National Bank--500330**  
 (Council Approval Report)

Vendor	Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
	418	07/15/19	HANSEN-THOMAS INC., 118 N. WIND ST., FLANDREAU, SD, 57028-1245	08/06/19	\$933.68	\$933.68	101-04-4257	Sidewalks	\$10,000.00	(\$26,409.53)
	7-2019	07/18/19	HANSEN-THOMAS INC., 118 N. WIND ST., FLANDREAU, SD, 57028-1245 509 W PIPESTONE AVE	08/06/19	\$933.68	\$933.68	101-04-4257	Sidewalks	\$10,000.00	(\$26,409.53)
	50	08/06/19	HEIMAN INC., 25814 RUDOLPH AVE, SIOUX FALLS, SD, 57107-6443	08/06/19	\$595.25	\$595.25	101-03-4260	Supplies	\$10,000.00	\$8,048.57
	0881325-IN	07/18/19	LED 3" SPOTLIGHT BLACK/INSTALLATION KIT	08/06/19	\$595.25	\$595.25	101-03-4260	Supplies	\$10,000.00	\$8,048.57
	144	07/23/19	HILLYARD / SIOUX FALLS, P.O. BOX 804925, KANSAS CITY, MO, 64180-4925	08/06/19	\$115.91	\$115.91	101-07-4260	Supplies	\$17,000.00	(\$948.40)
	603517777	07/23/19	SUPPLIES-POOL	08/06/19	\$115.91	\$115.91	101-07-4260	Supplies	\$17,000.00	(\$948.40)
	787	06/08/19	IOTT'S GREENHOUSE, 48720 225TS ST, WARD, SD, 57026-6923	08/06/19	\$213.31	\$213.31	101-01-4235	Promoting the City	\$7,500.00	(\$35,676.24)
	552714	06/08/19	SESQUICENTENNIAL-2019	08/06/19	\$213.31	\$213.31	101-01-4235	Promoting the City	\$7,500.00	(\$35,676.24)
	552710	05/26/19	PARK BOARD FLOWERS-2019	08/06/19	\$1,160.84	\$1,160.84	728-28-4260	Supplies	\$1,500.00	\$1,500.00
	01-00905-02	07/24/19	JAMES SUNDERMEYER, 107 N BATES ST, FLANDREAU, SD, 57028-1232	08/06/19	\$70.00	\$70.00	603-31-3441	Utility Sales	\$2,665,000.00	\$1,097,089.91
	01-00905-02 J SU	07/24/19	UTILITY BILLING REFUND-01-00905-02-JAMES SUNDERMEYER	08/06/19	\$70.00	\$70.00	603-31-3441	Utility Sales	\$2,665,000.00	\$1,097,089.91
	369	07/24/19	JERRY'S ELECTRIC INC., P O BOX 209, COLMAN, SD, 57017-0209	08/06/19	\$375.00	\$375.00	603-31-4260	Supplies	\$15,000.00	\$10,280.78
	L07-040-2019	07/24/19	PCB TESTING	08/06/19	\$375.00	\$375.00	603-31-4260	Supplies	\$15,000.00	\$10,280.78
	1815	07/21/19	JESSICA NAMELAND, 407 E 1ST AVE, FLANDREAU, SD, 57028-1220	08/06/19	\$250.00	\$250.00	101-00-2200	Customer Deposits	\$0.00	(\$1,600.00)
	7-2019	07/21/19	REFUND DEPOSIT-COMM CENTER	08/06/19	\$250.00	\$250.00	101-00-2200	Customer Deposits	\$0.00	(\$1,600.00)
	56	07/17/19	JUSTICE FIRE & SAFETY, 3601 N POTSDAMN AVE, SIOUX FALLS, SD, 57104-7032	08/06/19	\$180.00	\$180.00	101-03-4250	Repairs	\$9,000.00	\$6,284.92
	192682	07/17/19	VEHICLE BRACKET FIRE EXTINGUISHER/SERVICE CALL-FIRE DEPARTMENT	08/06/19	\$180.00	\$180.00	101-03-4250	Repairs	\$9,000.00	\$6,284.92
	1822	07/18/19	LILY PEREZ, 704 W PIPESTONE AVE, FLANDREAU, SD, 57028-1511	08/06/19	\$500.00	\$500.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	7-2019 LILY	07/18/19	SUMMER REC-ART CAMP-LILY PEREZ	08/06/19	\$500.00	\$500.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	65	07/12/19	M & T FIRE AND SAFETY, INC., P.O. BOX 167, VOLGA, SD, 57071-0167	08/06/19	\$1,535.00	\$1,535.00	101-03-4250	Repairs	\$9,000.00	\$6,284.92
	S071219-FLA	07/12/19	SERVICE PUMP TEST LOCATION SETUP FEE/TEST/LABOR/PART	08/06/19	\$1,535.00	\$1,535.00	101-03-4250	Repairs	\$9,000.00	\$6,284.92
						\$1,535.00				\$1,535.00

**CITY OF FLANDREAU**  
**Council Approval Report for First National Bank--500330**  
 (Council Approval Report)

Vendor	InvoiceNumber	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
	1821	MADDIE HURSEY, 22615 480TH AVE, FLANDREAU, SD, 57028-6705								
	7-2019	MADDIE	07/18/19 SUMMER RE-ART CAMP-SUPPLIES	08/06/19	\$71.55	\$71.55	101-23-4260	Supplies	\$2,000.00	\$1,305.35
	7-2019	MADDIE	07/18/19 SUMMER REC-ART CAMP-MADDIE HURSEY/SUPPLIES	08/06/19	\$500.00	\$500.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	847	MAXIMUM PROMOTIONS, INC, 705 N WEST AVE, SIOUX FALLS, SD, 57104-5717				\$571.55				
	4	07/31/19 3' X 5' NYLON FLAG		08/06/19	\$53.29	\$53.29	101-01-4260	Supplies	\$850.00	\$656.94
	66	MAYNARDS OF FLANDREAU, P.O. BOX 344, FLANDREAU, SD, 57028-0344				\$53.29				
	4-2019	SESQUICE	07/09/19 SUPPLIES-SESQUICENTENNIAL-2019	08/06/19	\$266.54	\$266.54	101-01-4235	Promoting the City	\$7,500.00	(\$35,676.24)
	1378	METRON-FARNIER, LLC, 5665 AIRPORT BLVD., SUITE B 105, BOULDER, CO, 80301-2300				\$266.54				
	29587	06/30/19 VERIZON WIRELESS SERVICE/EXTENSION OF ONE YEAR PLAN		08/06/19	\$300.00	\$300.00	602-31-4362	Equipment/Meters	\$25,000.00	\$21,529.09
	29572	07/24/19 VERIZON WIRELESS SERVICE EXTENSION OF ONE YEAR PLAN		08/06/19	\$1,560.00	\$1,560.00	602-31-4362	Equipment/Meters	\$25,000.00	\$21,529.09
	67	MID AMERICAN ENERGY, P.O. BOX 8020, DAVENPORT, IA, 52808-8020				\$1,860.00				
	389489547	07/23/19 GAS BILL		08/06/19	\$10.61	\$10.61	101-07-4280	Utilities	\$16,500.00	\$7,275.69
	389516887	07/23/19 GAS BILL		08/06/19	\$686.29	\$686.29	101-07-4280	Utilities	\$16,500.00	\$7,275.69
	68	MID AMERICAN RESEARCH CHEMICAL, P.O. BOX 927, COLUMBUS, NE, 68602-0927				\$696.90				
	0671207-IN	07/24/19 NUKE LIFT STATION DEGREASER 05		08/06/19	\$2,147.06	\$2,147.06	604-31-4260	Supplies	\$8,500.00	\$4,746.41
	1245	MINDY SMITH, 48214 224TH ST, FLANDREAU, SD, 57028-6901				\$2,147.06				
	8-2019	08/04/19 COMM CENTER DEPOSIT REFUND-2019		08/06/19	\$250.00	\$250.00	101-00-2200	Customer Deposits	\$0.00	(\$1,600.00)
	1819	MITCH MILLER, 2444 LARKSPUR RIDGE DR, BROOKINGS, SD, 57006-3676				\$250.00				
	7-2019	MITCH	07/24/19 SUMMER REC-COMPUTER PROGRAMMING-MITCH MILLER	08/06/19	\$315.00	\$315.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
	22	OFFICE PEEPS, INC., P.O. BOX 907, WATERTOWN, SD, 57201-0907				\$315.00				
	860363-0	07/25/19 ENVELOPE/TONER		08/06/19	\$81.95	\$81.95	602-32-4260	Supplies	\$6,750.00	\$3,204.50
	860363-0	07/25/19 ENVELOPE/TONER		08/06/19	\$81.95	\$81.95	603-32-4260	Supplies	\$7,000.00	\$3,425.84
	860363-0	07/25/19 ENVELOPE/TONER		08/06/19	\$81.95	\$81.95	604-32-4260	Supplies	\$6,500.00	\$2,998.96
	120	OTTERTAIL POWER COMPANY, P.O. BOX 2002, FERGUS FALLS, MN, 56538-2002				\$245.85				

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Vendor	Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
	70987	07/19/19	ELECTRIC/AIRPORT	08/06/19	\$145.54	\$145.54	606-11-4280	Utilities	\$5,500.00	\$2,360.27
						\$145.54				
			PATRICIA THOMPSON, 1131 BEARTOOTH PASS, FLANDREAU, SD, 57028-1269							
	99-02754-14 P TH	07/24/19	UTILITY BILLING REFUND-99-02754-14-PATRICIA THOMPSON	08/06/19	\$50.19	\$50.19	603-31-3441	Utility Sales	\$2,665,000.00	\$1,097,089.91
						\$50.19				
	1400		PRODUCTIVITY PLUS ACCOUNT, PO BOX 78004, PHOENIX, AZ, 85062-8004							
	12649192	07/10/19	URETHANE GLUE/WINDOW ASSY.	08/06/19	\$193.54	\$193.54	604-31-4250	Repairs	\$10,000.00	\$967.07
						\$193.54				
	275		RAMSDELL F&M LTD, 308 S VETERANS ST., FLANDREAU, SD, 57028-1437							
	336338	07/29/19	TOMAHAWK#2	08/06/19	\$90.35	\$90.35	101-04-4260	Supplies	\$13,500.00	\$5,094.67
						\$90.35				
	1816		ROGER AND LINNEA JANSSEN, 315 N CRESCENT ST, FLANDREAU, SD, 57028-1202							
	7-2014	07/23/19	REBATE CHECK	08/06/19	\$400.00	\$400.00	603-31-4294	Other - Energy Star Appli	\$5,000.00	\$3,885.40
						\$400.00				
	641		ROYAL RIVER CASINO, P.O. BOX 326, FLANDREAU, SD, 57028-0326							
	3-2019 ADA SEQI	03/17/19	ADA SEQIRA-WALL FALLING DOWN ON ZANDT BUILDING/CUSTOMER LIVING IN BUILDING	08/06/19	\$198.00	\$198.00	101-01-4901	Miscellaneous	\$1,000.00	(\$2,523.92)
						\$198.00				
	1824		RYAN LEE JONES, 4700 OREGON AVE N, NEW HOPE, MN, 55428-4648							
	0002	07/20/19	SUMMER REC CONCERT-2019	08/06/19	\$700.00	\$700.00	101-23-4901	Miscellaneous	\$8,000.00	\$4,872.50
						\$700.00				
	84		SD DEPT. OF HEALTH PUBLIC LAB SERVICES, 615 E 4TH ST, PIERRE, SD, 57501-9971							
	10588880	07/15/19	TESTING	08/06/19	\$45.00	\$45.00	602-31-4297	Test Samples	\$1,700.00	\$1,475.00
	10588880	07/15/19	TESTING	08/06/19	\$375.00	\$375.00	604-31-4297	Test Samples	\$1,200.00	(\$2,030.00)
						\$420.00				
	141		SD SUPPLEMENTAL RETIREMENT PLAN, P.O. BOX 1098, PIERRE, SD, 57501-1098							
	7-31-2019	07/31/19	SUPPLEMENTAL RETIREMENT-JEFF PEDERSON	08/06/19	\$38.46	\$38.46	101-17-4135	Retirement-Special	\$1,000.00	\$423.10
	7-31-2019	07/31/19	SUPPLEMENTAL RETIREMENT- LUCAS DAILEY	08/06/19	\$50.00	\$50.00	602-00-2166	Retire. Supplemental Pay	\$0.00	\$0.00
	7-31-2019	07/31/19	SUPPLEMENTAL RETIREMENT-JEFF PEDERSON	08/06/19	\$38.46	\$38.46	602-32-4135	Retirement-Special	\$1,000.00	\$423.10
	7-31-2019	07/31/19	SUPPLEMENTAL RETIREMENT-JEFF PEDERSON	08/06/19	\$76.93	\$76.93	603-32-4135	Retirement-Special	\$2,000.00	\$846.05
	7-31-2019	07/31/19	SUPPLEMENTAL RETIREMENT- LUCAS DAILEY	08/06/19	\$50.00	\$50.00	604-00-2166	Retire. Supplemental Pay	\$0.00	(\$100.00)

**Council Approval Report for First National Bank--500330**  
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Vendor	InvoiceNumber	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
	7-31-2019	07/31/19	SUPPLEMENTAL RETIREMENT-JEFF PEDERSON	08/06/19	\$38.46	\$38.46	604-32-4135	Retirement-Special	\$1,000.00	\$423.10
						\$292.31				
129	SD19-1514	06/30/19	SOUTH DAKOTA ONE CALL, PO BOX 1605, SIOUX FALLS, SD, 57101-1605 ONE CALL & FAX FEES FOR APRIL THROUGH JUNE-2019	08/06/19	\$27.42	\$27.42	602-31-4260	Supplies	\$5,000.00	\$2,262.16
	SD19-1514	06/30/19	ONE CALL & FAX FEES FOR APRIL THROUGH JUNE-2019	08/06/19	\$27.41	\$27.41	603-31-4260	Supplies	\$15,000.00	\$10,280.78
	SD19-1514	06/30/19	ONE CALL & FAX FEES FOR APRIL THROUGH JUNE-2019	08/06/19	\$27.42	\$27.42	604-31-4260	Supplies	\$8,500.00	\$4,746.41
						\$82.25				
1570	178540	07/01/19	SPARKLE CAR WASH, INC., 713 W 3RD AVE, FLANDREAU, SD, 57028-1503 VEHICLE WASH	08/06/19	\$10.00	\$10.00	101-01-4260	Supplies	\$850.00	\$656.94
	178540	07/01/19	VEHICLE WASH	08/06/19	\$85.85	\$85.85	101-02-4260	Supplies	\$6,000.00	\$3,942.03
						\$95.85				
1665	8-2019	08/01/19	STANDARD INSURANCE COMPANY, PO BOX 645311, CINCINNATI, OH, 45264-5311 LIFE INSURANCE	08/06/19	\$4.23	\$4.23	101-00-2168	Life Insurance Payable	\$0.00	(\$4.20)
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$63.48	\$63.48	101-02-4209	Insurance- Life A/P	\$764.00	\$498.14
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$106.50	\$106.50	101-03-4209	Insurance- Life A/P	\$1,380.00	\$749.52
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$21.30	\$21.30	101-04-4209	Insurance- Life A/P	\$268.00	\$140.20
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$4.26	\$4.26	101-08-4209	Insurance- Life A/P	\$63.00	\$37.44
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$1.70	\$1.70	101-17-4209	Insurance- Life A/P	\$97.00	\$86.80
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$2.13	\$2.13	211-10-4209	Insurance- Life A/P	\$26.00	\$13.22
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$4.22	\$4.22	602-00-2168	Life Insurance Payable	\$0.00	(\$4.23)
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$10.65	\$10.65	602-31-4209	Insurance- Life A/P	\$128.00	\$64.10
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$10.22	\$10.22	602-32-4209	Insurance- Life A/P	\$199.00	\$137.68
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$13.44	\$13.44	603-00-2168	Life Insurance Payable	\$0.00	(\$13.41)
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$27.69	\$27.69	603-31-4209	Insurance- Life A/P	\$332.00	\$165.86
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$9.37	\$9.37	603-32-4209	Insurance- Life A/P	\$239.00	\$182.78
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$4.22	\$4.22	604-00-2168	Life Insurance Payable	\$0.00	(\$4.23)
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$10.65	\$10.65	604-31-4209	Insurance- Life A/P	\$128.00	\$64.10
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$5.54	\$5.54	604-32-4209	Insurance- Life A/P	\$145.00	\$111.76
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$1.02	\$1.02	606-11-4209	Insurance- Life A/P	\$12.00	\$5.88
	8-2019	08/01/19	LIFE INSURANCE	08/06/19	\$1.53	\$1.53	612-05-4209	Insurance- Life A/P	\$18.00	\$8.82
						\$302.15				
1157	20190711	07/11/19	TEAM OF ANGELS, 627 E PIPESTONE AVE, FLANDREAU, SD, 57028-1310 (24) 2019 FLY-IN BREAKFAST-PILOT ATTENDEES-7/7/2019	08/06/19	\$144.00	\$144.00	606-11-4653	Promoting the City - Airp	\$200.00	\$200.00
						\$144.00				

**Council Approval Report for First National Bank--500330**  
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Vendor	Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
	1823	06/25/19	TLMV, INC.-ABA AMERICAN FENCE COMPANY OF SD, 12330 CARY CIRCLE, LA VISTA, NE, 68128-5579	08/06/19	\$3,242.00	\$3,242.00	101-01-4901	Miscellaneous	\$1,000.00	(\$2,523.92)
	23964	07/24/19	ZANDT BUILDING TEMP FENCE RENTAL- FOUR MONTHS THROUGH 8/19/2019	08/06/19	\$3,242.00	\$3,242.00				
	1456	07/18/19	VAST BROADBAND, PO BOX 35153, SEATTLE, WA, 98124-5153	08/06/19	\$58.34	\$58.34	101-07-4280	Utilities	\$16,500.00	\$7,275.69
	7-2019	07/24/19	POLICE/PHONE/INTERNET/CABLE	08/06/19	\$259.16	\$259.16	101-02-4280	Utilities	\$11,000.00	\$4,815.76
	7-2019	07/20/19	FIRE DEPT- PHONE/INTERNET/CABLE	08/06/19	\$120.34	\$120.34	101-03-4280	Utilities	\$4,800.00	\$1,519.92
	7-2019	07/18/19	POOL/PHONE	08/06/19	\$58.34	\$58.34	101-07-4280	Utilities	\$16,500.00	\$7,275.69
	7-2019	07/24/19	COMMM CE 11847702 COM CENTER/PHONE	08/06/19	\$40.46	\$40.46	101-10-4280	Utilities	\$10,000.00	\$3,436.30
	7-2019	07/24/19	OFFICE/PHONE/INTERNET/CABLE	08/06/19	\$150.65	\$150.65	603-32-4280	Utilities	\$3,800.00	\$976.06
	7-2019	07/24/19	OFFICE/PHONE/INTERNET/CABLE	08/06/19	\$150.65	\$150.65	603-32-4280	Utilities	\$3,800.00	\$976.06
	7-2019	07/24/19	OFFICE/PHONE/INTERNET/CABLE	08/06/19	\$150.65	\$150.65	604-32-4280	Utilities	\$4,000.00	\$1,501.72
	112	07/25/19	VERIZON WIRELESS, P.O. BOX 25506, LEHIGH VALLEY, PA, 18002-5506	08/06/19	\$266.11	\$266.11	101-02-4280	Utilities	\$11,000.00	\$4,815.76
	9834853489	07/25/19	MOBILE JET PACKS	08/06/19	\$25.34	\$25.34	602-32-4280	Utilities	\$3,500.00	\$1,138.99
	9834853489	07/25/19	CELL PHONE	08/06/19	\$35.77	\$35.77	603-31-4280	Utilities	\$7,500.00	\$3,099.15
	9834853489	07/25/19	MOBILE JET PACKS	08/06/19	\$25.34	\$25.34	603-32-4280	Utilities	\$3,800.00	\$976.06
	9834853489	07/25/19	MOBILE JET PACKS	08/06/19	\$25.34	\$25.34	604-32-4280	Utilities	\$4,000.00	\$1,501.72
	136	07/19/19	VISION SERVICE PLAN, , P.O. BOX 742788, LOS ANGELES, CA, 90074-2788	08/06/19	\$146.71	\$146.71	101-00-2157	Vision Insurance Payable	\$0.00	(\$122.08)
	8-2019	07/19/19	VISION INSURANCE	08/06/19	\$2.00	\$2.00	211-00-2157	Vision Insurance Payable	\$0.00	(\$2.00)
	8-2019	07/19/19	VISION INSURANCE	08/06/19	\$30.66	\$30.66	602-00-2157	Vision Insurance Payable	\$0.00	(\$30.66)
	8-2019	07/19/19	VISION INSURANCE	08/06/19	\$47.68	\$47.68	603-00-2157	Vision Insurance Payable	\$0.00	(\$47.68)
	8-2019	07/19/19	VISION INSURANCE	08/06/19	\$21.44	\$21.44	604-00-2157	Vision Insurance Payable	\$0.00	(\$21.44)
	8-2019	07/19/19	VISION INSURANCE	08/06/19	\$0.96	\$0.96	606-00-2157	Vision Insurance Payable	\$0.00	(\$0.96)
	8-2019	07/19/19	VISION INSURANCE	08/06/19	\$1.44	\$1.44	612-00-2157	Vision Insurance Payable	\$0.00	(\$1.44)
	1000	07/23/19	ZACHARY WEBER, 502 S PRAIRIE ST, FLANDREAU, SD, 57028-1000	08/06/19	\$10.02	\$10.02	101-02-4263	Gas/Oil	\$16,000.00	\$7,102.37
	7-2019	07/23/19	GAS	08/06/19	\$10.02	\$10.02				
			<b>Total Bills To Pay:</b>			<b>\$85,619.69</b>				

**Council Approval Report for First National Bank--500330**  
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Invoice Number	Date	Description	Due Date	Invoice Amt	Approved Amt	Account Number	Account Description	Budgeted \$	YTD Balance
213		FIRST NATIONAL BANK, ATTN: CORPORATE TRUST DEPARTMENT, 100 S PHILLIPS AVE, SIOUX FALLS, SD, 57104-6745							
6-2019	06/03/19	SALES TAX	06/03/19	\$5,964.25	\$5,964.25	101-40-4701	Interest - Sales Tax Debt	\$11,929.00	\$11,929.00
6-2019	06/03/19	LOADER LOAN #89775	06/03/19	\$14,523.55	\$14,523.55	101-40-4722	Principal - DS-Wheel Loa	\$29,333.00	\$29,333.00
6-2019	06/03/19	LOADER LOAN #89775	06/03/19	\$2,498.59	\$2,498.59	101-40-4723	Interest - DS - Wheel Loa	\$4,713.00	\$4,713.00
6-17-2019	06/17/19	AQUATIC CENTER BOND PAYMENT	06/17/19	\$13,082.96	\$13,082.96	307-40-4712	Principal - DS - Aquatic C	\$26,477.00	\$26,477.00
6-17-2019	06/17/19	AQUATIC CENTER BOND PAYMENT	06/17/19	\$2,590.68	\$2,590.68	307-40-4713	Interest - DS - Aquatic C	\$4,871.00	\$4,871.00
6-2019	06/03/19	IP LOAN #73369	06/03/19	\$2,925.40	\$2,925.40	704-93-4410	Principal	\$5,951.20	\$5,951.20
6-2019	06/03/19	IP LOAN #73369	06/03/19	\$407.68	\$407.68	704-93-4420	Interest	\$714.96	\$714.96
6-2019	06/17/19	WEP LOAN #72502	06/17/19	\$7,292.68	\$7,292.68	705-94-4410	Principal	\$20,374.93	\$20,374.93
6-30-2019	06/30/19	WEP LOAN #64556	06/30/19	\$3,060.84	\$3,060.84	705-94-4410	Principal	\$20,374.93	\$20,374.93
6-2019	06/17/19	WEP LOAN #72502	06/17/19	\$788.85	\$788.85	705-94-4420	Interest	\$2,534.13	\$2,534.13
6-30-2019	06/30/19	WEP LOAN #64556	06/30/19	\$312.16	\$312.16	705-94-4420	Interest	\$2,534.13	\$2,534.13
6-30-2019	06/30/19	ALCO LOAN #65253	06/30/19	\$12,793.99	\$12,793.99	707-96-4410	Principal	\$26,145.98	\$26,145.98
6-30-2019	06/30/19	ALCO LOAN #65253	06/30/19	\$1,204.01	\$1,204.01	707-96-4420	Interest	\$1,850.02	\$1,850.02
6-2019	06/03/19	SVHTS LOAN #85024	06/03/19	\$14,059.93	\$14,059.93	708-97-4410	Principal	\$28,840.83	\$28,840.83
6-2019	06/03/19	SVHTS LOAN #85024	06/03/19	\$15,944.66	\$15,944.66	708-97-4420	Interest Expense	\$31,168.35	\$31,168.35
				\$97,450.23	\$97,450.23				

**Total Bills To Pay:**

**\$97,450.23**

**\$97,450.23**

## Agenda Action Form Flandreau City Council

Meeting Date: 8/5/2019

**Title:** Action on Proposal to add Dedicated Bike Lane and Share the Road on First Avenue

Motion       Resolution       Ordinance       Other

**Background Information:** A presentation was made at the July 15<sup>th</sup> City Council meeting for the establishment of a dedicated bicycle lane on the North side of First Avenue and a share the road designation on the South side of First Avenue running from Veterans Street to Lindsay Street. Designation of the proposed dedicated bicycle lane will require vehicle parking to be disallowed on the North side of the street. This date was set for action on the proposal in order to provide interested residents the opportunity for comment.

**Justification:** Increase safety for bicyclists on this well-travelled street that contains the Public Schools, City Hospital, and Aquatic Park. The installation of the bike lanes will also encourage the use of bicycles which will increase the health and vitality of residents.

**Financial Consideration:** The proposal included cost estimate of \$5,146.

**City Administrator's Recommendation:** Approve for implementation within 60 days, with financing to be allocated from City Council Contingency Account.

**Attachments:** Documents from July 15<sup>th</sup> City Council meeting

## Dedicated Bike Lane on Flandreau's First Avenue

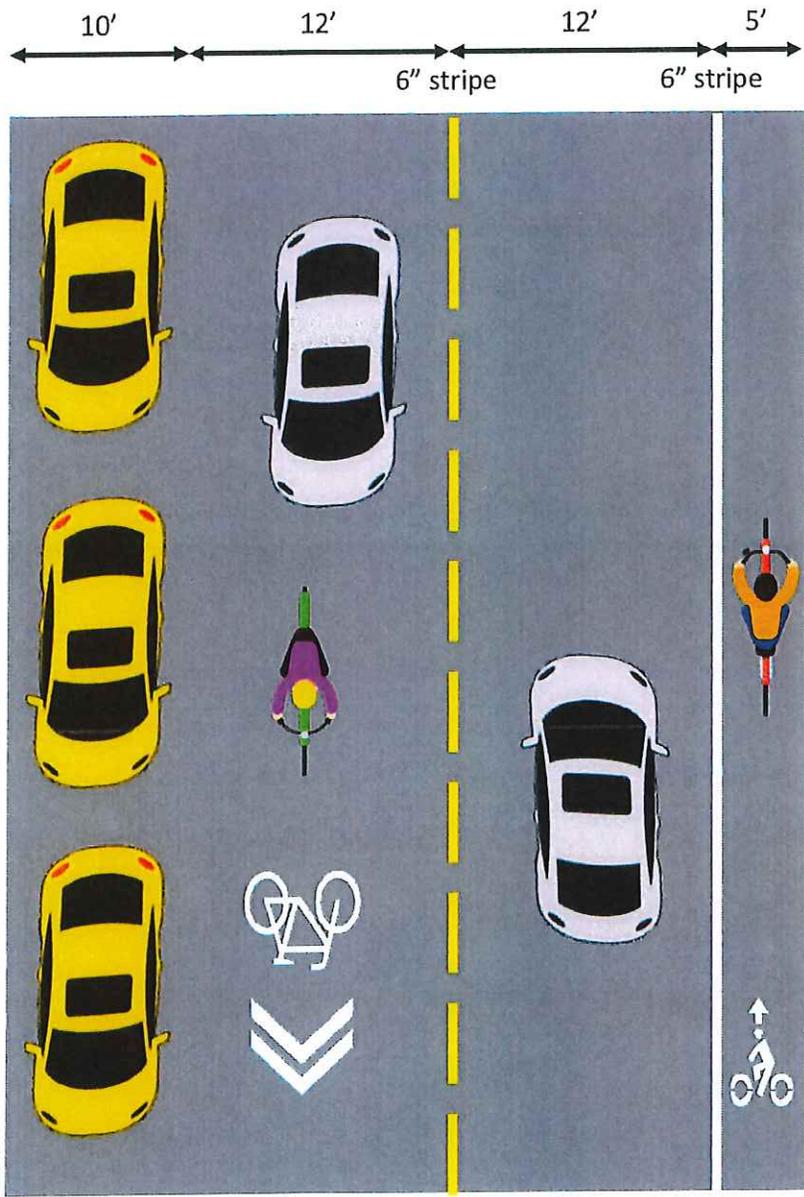


### Budgetary Estimate of Project

Pricing includes estimated cost of painting markings on the street, going west with the bike lane and painting share the road markings going east on First Avenue. Signage, for both sides of road, is also included, as described below:

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Cost</b>	<b>Total Price</b>
1	Painting	Lump Sum		\$ 3,000.00
2	Bike Lane Signage	12	\$60.00	\$ 720.00
3	Share the Road Signage	12	\$45.00	\$ 540.00
4	Bike Lane Starts/Ends Here	2	\$40.00	\$ 80.00
5	Shared Road Starts/Ends Here	2	\$45.00	\$ 90.00
6	No Parking Signs	12	\$18.00	\$ 216.00
7	Poles	Lump Sum		\$ 500.00
<b>TOTAL</b>				<b>\$ 5,146.00</b>

# Dedicated Bike Lane on Flandreau's First Avenue



## Agenda Action Form Flandreau City Council

Meeting Date: 8/5/2019

**Title:** Resolution 2019-03, Resolution to Approve an Integrated Resource Plan Summary Report

Motion       Resolution       Ordinance       Other

**Background Information:** An Integrated Resource Plan (IRP) is required by Western Area Power Administration (Western) under its Energy Planning and Management rules in order to renew the City's long-term agreement with Western for hydro-electric power. An IRP involves planning for future energy sources, power purchases, energy conservation and efficiency, and renewal resources, in order to provide adequate and reliable service to customers at the lowest system cost, as well as support municipal utility goals and schedules. A Public Hearing will be held at the beginning of the Council meeting to hear public questions and comments. The Plan has been prepared by staff at Missouri River Energy Services, as MRES members all have a Western power allocation and all rely on MRES to provide their supplemental power needs. The Report, albeit lengthy and complex, contains information relative to MRES power supply as well as energy conservation efforts underway through MRES such as Bright Energy Solutions and Coordinated Demand Response. Data is contained in the report in the aggregate for all MRES members, as well as for Flandreau individually. The Report validates the fact that Flandreau Municipal Power does have in place a long-term source of supplemental power as well as a program to conserve power and increase its utilization of renewable energy sources.

**Justification:** Required by Western Area Power Administration (Western)

**Financial Consideration:** Planning for future energy power purchases.

**City Administrator's Recommendation:** Approval

**Attachments:** Resolution 2019-03, Resolution to Approve an Integrated Resource Plan Summary Report. The complete Integrated Resource Report may be viewed electronically in the Council Packet information.

**RESOLUTION NO. 2019-03**

**A RESOLUTION TO APPROVE AN INTEGRATED RESOURCE PLAN SUMMARY REPORT**

WHEREAS, the City of Flandreau purchases a significant portion of its power supply from the Western Area Power Administration (Western); and

WHEREAS, Western has recently published its Energy Planning and Management Program Rules specifying the requirements for preparing and filing of an Integrated Resource Plan (IRP); and

WHEREAS, the municipal utility staff has prepared an IRP Summary Report describing the IRP process used and the information and assumptions used to develop the IRP; and

WHEREAS, our customers were informed of our IRP and resulting Action Plans through various means including a Public Hearing where public questions and comments were encouraged; and

WHEREAS, any public comments received will be addressed in order to strengthen the City's Integrated Resource Plan.

NOW THEREFORE BE IT RESOLVED by the City of Flandreau City Council as follows:

That the "Integrated Resource Plan Summary Report for the City of Flandreau dated September 2019 shall be approved for filing with Western under the Energy Planning and Management Program."

Passed and approved this 5<sup>th</sup> day of August, 2019.

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Mark R. Bonrud  
Mayor

ATTEST:

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Jeff Pederson  
City Administrator

Adopted: August 5<sup>th</sup>, 2019  
Published: August 14<sup>th</sup>, 2019  
Effective: September 3<sup>rd</sup>, 2019

**WAPA IRP**

**Cooperative Filing**

**for the cities of:**

**Flandreau, South Dakota**

**September 1, 2019**

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# **I. MRES Resource Planning**

## ***A. Overview***

Missouri River Energy Services (MRES) is a member-based joint-action agency, headquartered in Sioux Falls, South Dakota, with 61 member municipalities in the states of Iowa, Minnesota, North Dakota, and South Dakota. Of its 61 members, 58 are S-1 customers, each of whom receives hydroelectric preference power from the Western Area Power Administration (WAPA). These members purchase power from MRES to meet their needs over and above their WAPA allocations. In 2017 all MRES S-1 members took action to extend the S-1 agreements to 2057.

All of the MRES S-1 members receive hydroelectric preference allocations from WAPA and have purchase power agreements with WAPA to deliver power and energy from those allocations. The member cities purchase all supplemental power from MRES. Because of this contractual arrangement, all the supply-side resource planning is conducted by MRES on behalf of its members.

Conversely, the member cities own and operate their own distribution systems and perform all interfacing with the retail customer. Thus the member cities have the lead responsibility for demand-side and customer efficiency programs with assistance being available from MRES.

This document describes the overall process of coordinating the supply-side and demand-side planning into a cohesive, least-cost integrated resource plan.

## ***B. Resource Plan Goals***

MRES endeavored to meet the requirements of the applicable state statutes and WAPA standards for integrated resource plans. In the analysis of the scenarios for the capacity expansion modeling, MRES balanced the needs of the members with that of the environment. MRES is committed to maintaining the reliability of power supply, while providing predictability and reasonableness of rates for residential, commercial, and industrial customers. At the same time, MRES is also committed to expansion of its renewable resources and taking an active role in conservation measures. In the analysis of various scenarios, environmental concerns such as emissions were evaluated and also balanced with such considerations as the need for firm base load power and stabilization of energy costs. The analysis of the various scenarios in the context of these goals resulted in a choice of resource mix that is environmentally responsible, cost-effective, and balanced.

More specifically, the resource planning goals of MRES are to:

Study Goal 1: Maintain the Adequacy and Reliability of Power Supply.

To meet this goal, load projections were developed for MRES power supply members, including the amounts required for SPP and MISO planning reserves. The focus of this study goal was to determine the lowest-cost, reliable plan which optimizes the amount of resources, while meeting capacity requirements. It necessitates the evaluation of a variety of options, including baseload, natural gas combined cycle (NGCC), integrated gasification combined cycle (IGCC), combustion turbine (CT) units, wind turbines, and solar units for the MRES resource mix.

#### Study Goal 2: Keep Members' Wholesale Rates Competitive.

The primary objective of this goal is to minimize the overall long-term power supply costs to MRES member communities. Capacity expansion modeling was utilized to determine the least-cost resource mix (both demand-side and supply-side) under a number of different scenarios. The analysis examined these resource combinations over the 2019 through 2040 timeframe.

#### Study Goal 3: Minimize Adverse Socioeconomic and Environmental Effects.

The referenced cases all applied Minnesota Public Utilities Commission-approved environmental externality prices and considered expected costs for mercury and SO<sub>2</sub> allowances when computing the least-cost plan. Various CO<sub>2</sub> emission cost values were explored. Those externalities and emission cost values were calculated using all MRES firm load, not just the Minnesota portion of the MRES loads. Several of the cases and scenarios specifically considered renewable resources, using wind for renewable energy for the purpose of meeting this study goal.

Another specific criterion of this goal was the inclusion of resources to meet the renewable resource objectives established by the MRES board. MRES is committed to achieving the Minnesota RES, supplying 20 percent by 2020, and 25 percent by 2025. MRES presently meets the renewable energy goals for its Minnesota load and has resources in place to meet it for the next several years. MRES also has adequate resources to supply at least 10 percent of its load in the other states with renewable resources.

A major component of minimizing environmental impacts is to fully implement conservation and DSM. As described earlier, MRES commissioned Morgan Marketing Partners to perform a DSM potential study, the results of which were incorporated into this resource plan. MRES is undertaking efforts to implement cost-effective DSM measures throughout its membership. In addition, MRES is assisting its Minnesota members with meeting the CIP (Conservation Improvement Program) requirement, which includes DSM amounts in addition to what was found feasible by Morgan Marketing Partners.

#### Study Goal 4: Enhance the Ability of MRES to Respond to Changes and to Limit Risks.

In meeting this goal, the resource plan discusses and analyzes several of the potential risks MRES could face. These risks, along with several other significant risks related to resource planning, were addressed with several sensitivity analyses.

### ***C. Load Forecasting***

The MRES load forecasts are based upon a short-term forecast blended into a long-term econometric forecast. Each forecast predicts the aggregate total usage for each member city for each month of the forecast horizon. By subtracting the allocated amounts of WAPA demand and energy, the monthly MRES demand and energy sales to each member is obtained.

The following steps were followed to develop a load forecast for each member municipality.

#### ***i. Develop Long-Term Forecast***

This includes updating the historical files for monthly energy usage and all of the independent variables, forecasting values for independent (explanatory) variables, generating long-term energy models for each member, including any spot load adjustments; and selecting a final long-term energy model for each member.

Annual data for variables believed to be useful in predicting total energy were input into a software package called MetrixND® and regression models were constructed for each city. The city total energy was the dependent variable for each model. Possible independent variables included county census data for the county in which the city is located, weather data from the nearest weather station, national economic statistics, and alternate fuel prices for the region. A number of possible models were tested for each city, and certain criteria were scrutinized in order to find a model that was statistically sound and provided a reasonable expected growth rate. Models were selected primarily based on adjusted R-square, Mean Absolute Percentage Error (MAPE), T-statistics, and Durbin-Watson statistics. The long-term forecast was based on a regression analysis of annual historical data from 1980 through 2016 and created annual energy forecasts through 2040.

#### ***ii. Develop Short-Term Forecast***

Independent of the long-term modeling process, the short-term forecasts were generated using a multiple regression analysis. For the last five years of the analysis, monthly city total energy was the dependent variable for each model.

The primary independent variables included monthly cooling, heating, and total degree days for the weather station representing the city. The logarithmic transformations of the degree days could also be selected as independent

variables. At least one weather variable was used in each model. Additionally, no more than two weather variables could be included per model.

Both the one-month and twelve-month lagged energy variables were included in some models, if necessary, to achieve acceptable statistical results. The logarithmic transformations of one-month and twelve-month lags were made available as independent variables. Only one lag variable or transformation thereof could be included per model.

A linear trend variable and the logarithmic transformation of the linear trend were included in some models, if necessary, to achieve acceptable statistical results. Any long-term growth (or negative growth) realized by the cities should be accounted for by including a trend component. A maximum of one trend or transformation of a trend variable was allowed per model.

Monthly binary variables were used to account for the monthly variation in energy sales. Binary variables take the value of one or zero depending upon a condition occurring or not occurring. There were 11 binary variables, with the first binary variable, d1, being equal to 1 for January, and the other ten binary variables being equal to 0 in January. The second binary variable, d2 is equal to 1 for February, and the other ten binary variables being equal to 0 for February, and so on. It is mandatory in regression modeling that one month does not have a binary variable, in order that some base level is set, and subsequent months are either an addition or a subtraction to that base level. Subsequently, the constant is the 12<sup>th</sup> binary variable. In this case, December was the month not represented by a binary variable. All 11 monthly binary variables were forced into each regression model.

### *iii. Blend Short-Term and Long-Term Forecasts*

The short-term forecasts were used for each member through the remainder of the current year and one additional year. After that year, each member's annual growth rates from the long-term forecasts were used to extend the forecasted energy into a long-term "blended" base forecast that extends to the year 2040.

### *iv. Calculate MRES vs. WAPA Loads*

Once the forecasted values were obtained, the forecasts for each member were processed by a calculation that splits the energy and demand between WAPA and MRES. The amount of energy and demand that a member receives from WAPA is called the Contract Rate of Delivery (CROD), and is based on a formula specified in the WAPA firm power contracts of each member.

Under the Fixed CROD method, each city is assigned a monthly allocation of demand and a monthly allocation of energy from WAPA. Any amount of demand or energy exceeding that monthly allocation is provided by MRES. The allocations are the same from year to year for each city, although they vary each

month within the year. Also, the allocations were reduced by approximately 4% in January 2001 to allow WAPA to create new allocations for certain new customers and Native American loads, and were reduced again by 0.25% in January 2006 to create new allocations for additional WAPA customers. One percent reductions in WAPA allocations are expected in January 2031 and are included in the calculations done for this filing.

Once the WAPA allocations are subtracted from the city loads, the remainder is the amount that MRES supplies to each city.

The load factors of the WAPA allocations do not change from year to year and are different from the load factors of the cities. Because MRES serves the portion of each city's load not supplied by WAPA, the MRES sales also have a different load factor than each city's total load.

v. *Calculate MRES Generation Requirements*

MRES must also plan to supply reserve capacity for the control areas in which it operates. Currently, MRES is operating in two areas; Southwest Power Pool (SPP), and Midwest Independent System Operators (MISO).

MISO rules specify that adequate capacity be designated to meet forecasted loads plus losses and a Planning Reserve Margin (PRM). The load forecast previously described in this document is reduced by a diversity factor since our loads are not expected to peak at the same time as the MISO peak. These values are then scaled up for losses (losses vary depending on the area), and a 7.9% PRM is applied. The resulting values represent the total load requirement that MRES is responsible for serving.

In measuring the capacity that accrues towards the requirement, the utility first defines each unit's Installed Capability (ICAP) based on annual tests. MISO then discounts the ICAP value to account for historical or typical forced outage rates to obtain the Unforced Capability (UCAP) rating. Only the smaller UCAP amount may accrue towards meeting the capacity requirement.

A utility designates how much of each unit it wishes to designate for the planning year, by converting some or all of each unit's UCAP rating to Planning Resource Credits (PRC). Each PRC is equivalent to 1 MW of UCAP.

In this resource plan, MRES is designating as PRC all of its accredited generating resources that are in the MISO market area. Since that amount is inadequate to meet the total capacity required, MRES has also entered into several capacity purchase contracts, which greatly reduces the MISO capacity deficit. Any projected shortage not covered by generating units or capacity contracts is covered by purchasing PRCs in the annual auction conducted by MISO.

SPP employs a similar method as MISO, with a few key differences. The load forecast previously described in this document is reduced by the historic MRES diversity factor of 2.5%, then scaled up by 4% to include losses. A PRM of 12% is then applied. Units are not derated in SPP as they are in MISO. MRES has excess capacity in the SPP area, and has entered into several capacity sale contracts, using that revenue to offset the expense of capacity purchases in MISO. SPP does not currently provide a market for the auction of capacity credits.

#### ***D. Generation Resources***

MRES, either directly or through its contracts with Western Minnesota, has the following generation capacity:

- Laramie River Station (LRS): 280 MW
- Exira Station: 140 MW
- Point Beach Nuclear Plant: 42.5 MW under contract with Wisconsin Public Power Inc. through 2030, with reduced amounts through 2033.
- Watertown Peaking Plant (WPP): 50 MW
- Municipal Capacity: 148.5 MW
- Red Rock Hydro Project: Expected to be operational 2021 at 36.5 MW
- Each S-1 member city receives a monthly allocation of WAPA demand and energy, totaling approximately 318 MW during the summer season

In addition to the accredited capacity, MRES has limited unaccredited capacity, as identified in the Resource Plan. MRES continues to receive the output from wind projects located in Worthington, Moorhead, Marshall, and Odin, Minnesota; Rugby, North Dakota; and Hancock County Iowa totaling over 83 MW. MRES also installed a 1 MW solar facility in Pierre, SD.

#### ***E. MRES Resource Planning Development***

This section includes a summary of the capacity expansion study process. Included is a description of the resource options considered in the resource planning combinations, a summary of the risks to be studied in the scenario analysis, and a summary of the generation and transmission resource planning results.

##### ***i. Modeling Method***

MRES utilizes ABB Capacity Expansion<sup>®</sup> capacity expansion software in the development of the resource plan. This methodology allows base load and peaking resources to compete with renewable energy resources, conservation, and energy efficiency in developing the resource plan that minimizes costs. Once the optimal resource mix was identified and the Base Case was developed, several scenarios were analyzed to determine the financial risk associated with unexpected events.

*ii. Needs for Additional Capacity and Energy*

No thermal units are planned to be installed until 2022, however MRES is currently capacity deficit in MISO and we will continue to make capacity purchases to meet reserve requirements. In addition to future thermal additions our capacity expansion modeling also assumes approximately 85.7 MW of DSM by 2040, and 80 MW of newly installed wind turbines.

*iii. Resource Options Considered*

Many different resource options were considered for the capacity expansion modeling, but only a subset of the options were chosen for detailed study after considering their relative costs and availability. When selecting potential resources for detailed study, consideration was given to several factors:

- Geographic Diversity – It is desirable for MRES resources to be located across a broad geographic area. This minimizes the chance for a single transmission outage to significantly impact the ability to serve MRES loads.
- Reliability – MRES prefers to add resources that are of a proven technology. This minimizes the severity of unexpected forced outages.
- Dispatchability – With the exception of future wind resources, it is assumed that all future generation should be dispatchable. This is essential for MRES to be able to meet its demand on peak days.
- Other risk factors – Other factors affecting the operation of any future resources were considered, such as the price and availability of fuel.

After this screening process, purchase or build options were considered for these standard types of resources:

1. Base load: An Integrated Gasification Combined Cycle (IGCC)
2. Peaking: Natural Gas-fired Simple-Cycle Combustion Turbine (CT) units.
3. Peaking #2: Reciprocating Natural Gas-fired Combustion Turbine units.
4. Intermediate: Natural Gas-fired Combined Cycle (NGCC) units.
5. Renewable #1: 1000 kW Wind Turbines with a 35% assumed plant factor and 15% accreditation installed in 100 MW farm sizes.
6. Renewable #2: 1000 kW Solar Unites with a 20% assumed plant factor and 27% accreditation installed in 100 MW farm sizes.

7. DSM (Demand Side Management): 85.7 of DSM (coincident with the MRES peak) by 2040 was forced into all of the capacity expansion models.

*iv. Future DSM Activities*

As part of its ongoing efforts, MRES commissioned Morgan Marketing Partners to perform a DSM Potential Study. The final report for the study was completed in October 2014. This study determined (1) the Technical Potential (Identify measures that are technically feasible); (2) the Economic Potential (Identify measures that are cost-effective); and (3) the Market Potential (Identify level of uptake that can be expected based on a reasonable level of intervention in the market to overcome adoption barriers).

The Technical Potential estimates the amount of DSM that is technically feasible, ignoring any adoption barriers or economic factors. It considers the energy savings, demand savings, number of eligible units or buildings, technology saturation, technology penetration, and measure lifetime.

The Economic Potential reduces those estimates to account for any measures that would be infeasible due to economic or long payback considerations. Besides the factors used for the Technical Potential, it considers incremental cost, the retail values of energy, and the participant's benefit-cost ratio for each measure.

Finally, the Market Potential further reduces the estimates to account for certain adoption barriers. It also considers a market barrier level (based on a diffusion curve for adoption of new technologies), free ridership levels, and a degradation of savings rate.

Once the DSM programs were screened through the above process, MRES staff used the results of the potential study to group the DSM programs into eleven DSM Portfolios. This step reduced the volume to a manageable number to be evaluated in this analysis. Similar programs were grouped together, with the resulting portfolios and the potential MW savings by 2040 listed below:

- Commercial & Industrial Compressed Air 7.0 MW
- Commercial & Industrial Low Load Factor 0.2 MW
- Commercial & Industrial High Load Factor 2.2 MW
- Commercial & Industrial HVAC 6.7 MW
- Commercial & Industrial Lighting 18.6 MW
- Commercial & Industrial Refrigeration 0.5 MW
- Commercial & Industrial Food Service 0.1 MW
- Residential Appliances 0.5 MW
- Residential HVAC 27.8 MW
- Residential Lighting 5.9 MW

• Direct Load Control	16.2 MW
<b>TOTAL</b>	<b>85.7 MW</b>

These portfolios were forced into the capacity expansion analysis. As a result, the model built less generating capacity, purchased less energy on the market, and generated less energy. The model also estimated the costs of administering the DSM programs, and providing incentives to customers.

v. *Renewable Energy Resources*

MRES has existing renewable energy resources and is planning renewable resource additions as an integral part of the resource planning process. The expansion of renewable resources in the MRES portfolio is important to meeting its mission to provide environmentally responsible energy and to make a good faith effort in meeting Minnesota’s Renewable Energy Standard (RES), North and South Dakota’s Renewable Energy Objectives (REO), and Iowa’s Alternative Energy Purchase (AEP). MRES continues to receive the output from wind projects located in Worthington, Moorhead, Marshall, and Odin, Minnesota; Hancock County, Iowa; and Rugby, North Dakota totaling over 83 MW. MRES has also installed a 1 MW solar facility in Pierre, SD. In addition to this existing generation, MRES plans to commission 36.5 MW at the Red Rock Hydro Project by 2021, and construct or contract an additional 80 MW of wind generation by 2037 to comply with the state requirements mentioned above. These future wind and hydro installations were forced into the model as a minimum, with the model being able to voluntarily add more if found to be economical.

vi. *Emission Costing*

MRES used the emission externality costs for SO<sub>2</sub>, PM<sub>10</sub>, CO, NO<sub>x</sub>, and lead as approved by the Minnesota Public Utilities Commission (PUC) for each case for all new resources. Because all current and future fossil-fuel resources of MRES are located outside of Minnesota, the costs were based on the Minnesota environmental externality values as published by the Minnesota PUC for resources within 200 miles of the state, inflation adjusted. The published Minnesota CO<sub>2</sub> externality price was zero for such resources, but a CO<sub>2</sub> costs of \$21.50 and \$34 per ton were considered in several alternative scenarios.

F. *Resource Planning Results*

After accounting for all of the details listed above, Capacity Expansion software modeling indicated that the preferred expansion plan for MRES is 167.6 MW of Combustion Turbine (CT) in 2022 and another 83.8 MW CT unit in 2026. Also included in the model is 80 MW of wind for RES compliance and 85.7 MW of DSM by 2040. Multiple alternative scenarios were also evaluated to consider various effects, such as low or high load forecasts, or low or high natural gas prices.

## ***G. Implementation***

As a wholesale power supplier, it is the responsibility of MRES to provide all supplemental power supply to MRES S-1 member utilities. Prior to 2006, energy efficiency programs were the responsibility of each individual MRES member since MRES did not have a direct relationship with its members' retail customers and since energy efficiency programs are implemented at the retail level. In an effort to bridge the traditional gap between MRES as a wholesale supplier, and its members as retail DSM providers, the MRES Board of Directors began efforts in early 2006 to develop a program that would strongly encourage additional DSM, would assist and support member implementation of DSM, and would integrate MRES and member efforts. An overview of the DSM progress of MRES and its members is described below.

### ***i. DSM Task Force***

In 2006, the MRES Board of Directors created a DSM Task Force to chart a course toward developing and implementing DSM programs to be provided to all the member communities. The Task Force was comprised of 14 representatives from member communities, including 2 members of the MRES Board of Directors. The purpose of the Task Force was to evaluate and recommend energy efficiency and demand management strategies that would allow MRES to achieve the DSM goals identified. The Task Force also determined the respective roles of MRES and its members, and developed implementation and marketing strategies for the rollout of DSM programs. As the result of the 12 Task Force meetings, MRES developed a portfolio of energy efficiency programs called Bright Energy Solutions® (BES) and developed a Coordinated Demand Response (CDR) program. Both of those programs continue to be enhanced and expanded by MRES over time.

### ***ii. Bright Energy Solutions***

One of the recommendations of the DSM Task Force was for MRES to create a brand that encompasses all of the DSM program offerings to the member communities. MRES created Bright Energy Solutions (BES) to assist the members in implementing DSM activities, to provide consistency in programs throughout the membership, and to make programs easily identifiable to customers and regional trade allies.

MRES conducted further study work to design individual measures and programs to be offered through Bright Energy Solutions. Bright Energy Solutions is currently offered to commercial, industrial and residential customers in 60 participating MRES member communities. The Bright Energy Solutions program offers a portfolio of energy efficiency cash incentive programs that will help the member's customers reduce their electric energy costs and operate more

efficiently. At the same time, the savings provide MRES with a very cost effective power supply resource.

## ***H. BES Programs Designed to Meet Goals***

Under the Bright Energy Solutions banner, MRES member utilities began to offer a limited number of energy efficiency incentives in January 2008, through our member utilities, to commercial and industrial customers. Several residential programs were added in 2009. Since then, the BES offerings have been expanded for all customer classes. The 2019 BES incentive offerings are as follows:

Residential BES Programs:

- ENERGY STAR® Products and Residential Lighting
- Residential Heating and Cooling

Commercial and Industrial BES Programs:

- Commercial Refrigeration
- Compressed Air System Efficiency
- Custom Incentives for Businesses
- Food Service for Businesses
- Heating and Cooling for Businesses
- Lighting - New Construction
- Lighting Retrofits
- New Construction Design Review
- Pumps and VFDs for Businesses

The targeted audience for the BES programs is primarily business customers since commercial and industrial electrical consumption makes up the majority of the MRES members' retail sales. However, it is the goal of the BES program to ensure that all customers have an opportunity to save energy and money.

### ***i. BES Savings Results***

The following tables show the BES savings results from inception through 2013:

<b>Year</b>	<b>Incentives Paid</b>	<b>kWh Savings</b>	<b>kW Savings</b>
2008	\$ 485,040	6,237,775	1,595
2009	\$ 1,242,842	16,737,462	3,762
2010	\$ 1,809,139	26,494,210	5,252
2011	\$ 1,888,249	29,824,594	6,077
2012	\$ 1,617,411	24,325,963	5,190

2013	\$ 1,918,485	28,176,376	6,053
2014	\$ 1,990,601	32,851,425	6,226
2015	\$ 2,385,985	32,384,209	6,734
2016	\$ 2,666,278	39,503,342	7,189
2017	\$ 2,801,301	44,185,826	8,864
2018	\$ 2,616,411	47,227,827	8,296
<b>Totals</b>	<b>\$ 21,421,745</b>	<b>327,949,009</b>	<b>65,236</b>

In addition to helping MRES meet its Resource Plan goals, the expansion of the BES program has served to help the MRES Minnesota and Iowa members meet their state energy savings goals as well. Both Minnesota and Iowa strongly encourage energy efficiency through the adoption of state goals for each electric utility. The 2019 goal for MRES Minnesota members is to save 1.5 percent of average retail sales. Although the states of Iowa, North Dakota and South Dakota do not have formal energy saving goals, the MRES members in those states are very actively promoting the BES programs to ensure that their customers have an equal opportunity to save energy and money.

*ii. Future Strategies for Savings*

The Bright Energy Solutions program is now in its twelfth year of implementation. MRES is finding that as the most cost-effective and most universally applicable efficiency projects (i.e. lighting) are being completed, it becomes increasingly harder to get energy savings. MRES is continually looking for new marketing strategies, new implementation methods, and new technologies to encourage more participation and move projects to fruition. New Construction Design review has been a popular and successful program, which we intend to continue. An engineering firm is contracted to review potential designs in the early stages of the project. Recommendations for additional energy saving measures are recommended to the project owner. A comprehensive calculation of the demand and energy savings are provided for the final design.

New programs will be evaluated in the future as technology becomes available and market opportunities are identified.

***I. Cost-Effectiveness of BES Programs***

As part of the development of the Bright Energy Solutions program, a number of steps were taken to analyze the costs, benefits, and applicability of the programs, both from the MRES perspective and the member utility perspective. That evaluation is described below.

*i. Economic Analysis of Energy Efficiency*

As MRES started developing DSM programs and making decisions about which efficiency measures to rebate and where to set rebate levels, it became apparent that more in-depth economic analysis was needed. MRES worked with consultant Morgan Marketing Partners for guidance in the development of the DSM programs and rebates. The incentive levels set for the measures covered by the program were assessed through a cost-effectiveness analysis using DSMore software, a model that utilizes the Total Resource Cost (TRC), Utility Cost Test (UCT), Ratepayer Impact Measure (RIM), Societal, and Participant test. The cost-effectiveness tests take into account for the energy and demand savings, associated avoided costs, net benefits to MRES members, incremental or installed costs, and the program costs.

The test that is the most applicable, and most important to MRES in determining cost-effectiveness is the UCT. This test compares the costs of DSM to the benefits of the program from the utility perspective. The costs of DSM include the incentives that are paid to the customer, the administrative costs, and the marketing or promotional costs. For MRES, the benefit of DSM is a reduction in future costs to MRES. By achieving savings through DSM, MRES has the opportunity to avoid purchases on the open market virtually every day. MRES chose to offer the energy efficiency measures that were found to be cost-effective using the UCT test. The results of all other tests were reviewed and considered as well. If a measure passed the UCT test, but did not pass one or more of the other Standard Practice Manual tests, those measures were given particular scrutiny to determine whether the measure should be offered by MRES. Factors that were considered included the cost to the participant, the benefits to the participant, the value of environmental benefits, and possible rate impacts to non-participants.

The following is a list of the TRC and UCT test results for different categories of DSM programs. Note that values over 1.0 indicate a passing test:

	UCT	TRC
Commercial & Industrial Compressed Air/Process	5.82	4.47
Commercial & Industrial Custom – Low Load Factor (Plug Load Specialty)	7.52	5.76
Commercial & Industrial HVAC	3.21	2.66
Commercial & Industrial Lighting	6.19	4.76
Commercial & Industrial Refrigeration	6.10	5.06
Commercial & Industrial Food Service	4.22	2.61
Commercial & Industrial Custom High Load Factor	6.60	4.08
Residential Appliances	4.17	4.36
Residential HVAC	1.73	1.56

Residential Lighting	4.03	2.83
Direct Load Control	1.32	3.15

*ii. Member Program Selection*

MRES offers the menu of Bright Energy Solutions programs to all S-1 members. Members may choose to offer any or all of the programs based on the demographics and needs of their customer base and their own preferences. MRES provides all of the incentives offered through the programs as a reimbursement to the member utility. MRES also provides marketing materials that each member can customize for their own use, as well as technical assistance and field inspection assistance when the incentive is in excess of \$20,000 per retail customer for a given project. MRES provides a tracking system to track the savings goals of each member, the incentive amounts paid, and kW and kWh savings from all rebate applications. The information is available to members in real-time through a web portal. MRES members must answer customer questions, review applications, conduct field inspections for rebate applications over \$20,000, and issue checks for rebates. Below is the current menu of program offerings, along with the incentives paid by MRES:

**BRIGHT ENERGY SOLUTIONS®**  
**INCENTIVE SCHEDULE A - Effective 2019-0101**

Measure	Incentive	Unit
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**Lighting Retrofits**

**Low Wattage Replacement Lamps**

Low Watt T8 lamps - per lamp	\$ 1.00	EA
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**LED Signs/Signals/Technologies**

LED Exit Signs Electronic Fixtures (Retrofit Only)	\$ 8.00	EA
LED Auto Traffic Signals	\$ 25.00	EA
LED Pedestrian Signals	\$ 22.00	EA
LED Reach-in refrigerated case lighting - per door	\$ 25.00	EA
LED Reach-in refrigerated case lighting - per door - DLC Premium	\$ 30.00	EA
LED Recessed Downlights (indoor only)	\$ 6.00	EA
LED screw-in replacement lamps > 600 lumens - per lamp	\$ 1.50	EA
LED screw-in replacement lamps < 600 lumens - per lamp	\$ 1.50	EA
LED screw-in replacement lamps - floods or spots	\$ 3.00	EA
LED horizontal case lighting - per foot of lamp	\$ 3.00	EA
LED horizontal case lighting - DLC Premium - per foot of lamp	\$ 4.00	EA
LED Linear Lamp - 4' T8 Replacement	\$ 3.00	EA

LED Linear Lamp - 4' T5HO Replacement	\$ 3.00	EA
LED Pin-Based Replacement Lamp - Replacing Fluorescent	\$ 4.00	EA

#### Controls

Occupancy Sensor	\$ 0.06	per Watt
Daylighting Sensor (continuous)	\$ 0.07	per Watt
Combo Occupancy and Daylighting Sensor	\$ 0.10	per Watt
Networked lighting control	\$ 0.12	per Watt
Occupancy Sensor Controlling LED Case Lighting	\$ 5.00	per Door

## Lighting in New Construction

#### High Bay LED Fixtures - DLC Listed

LED High Bay Fixtures ≤75 W	\$ 15.00	EA
LED High Bay Fixtures ≤110 W	\$ 25.00	EA
LED High Bay Fixtures ≤160 W	\$ 30.00	EA
LED High Bay Fixtures ≤275 W	\$ 45.00	EA
LED High Bay Fixtures ≤400 W	\$ 80.00	EA
LED High Bay Fixtures >400 W	\$ 105.00	EA

#### High Bay LED Fixtures - DLC Premium

LED High Bay Fixtures ≤75 W	\$ 20.00	EA
LED High Bay Fixtures ≤110 W	\$ 30.00	EA
LED High Bay Fixtures ≤160 W	\$ 35.00	EA
LED High Bay Fixtures ≤275 W	\$ 50.00	EA
LED High Bay Fixtures ≤400 W	\$ 85.00	EA
LED High Bay Fixtures >400 W	\$ 115.00	EA

#### LED Troffer - DLC Listed

LED Troffer (<3000 Lumens)	\$ 4.00	EA
LED Troffer (3000 - 5799 Lumens)	\$ 6.00	EA
LED Troffer (≥ 5800 Lumens)	\$ 9.00	EA

#### LED Troffer - DLC Premium

LED Troffer (<3000 Lumens)	\$ 6.00	EA
LED Troffer (3000 - 5799 Lumens)	\$ 9.00	EA
LED Troffer (≥ 5800 Lumens)	\$ 14.00	EA

#### Controls and Other Efficient Lighting Technologies

DLC-Listed Networked Lighting Controls	\$ 0.09	per Watt
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#### LED Technologies

LED Recessed Can Downlights (indoor only)	\$ 6.00	EA
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Occupancy Sensor controlling LED refrigerated case lighting - per door	\$ 5.00	EA
LED screw-in replacement lamps $\geq$ 600 lumens - per lamp	\$ 1.50	EA
LED screw-in replacement lamps $<$ 600 lumens - per lamp	\$ 1.50	EA
LED screw-in replacement lamps - floods or spots	\$ 3.00	EA
LED Pin Lamps (Replacing pin CFL)	\$ 4.00	EA
LED Linear Lamp - 4' T8 size	\$ 3.00	EA
LED Linear Lamp - 4' T5HO size	\$ 3.00	EA

## HVAC/Cooling Technologies

### Packaged Terminal Air Conditioners (PTAC)

High Eff PTAC Electric - all sizes	\$ 45.00	per ton
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### Air Conditioning Systems - split systems

AC less than 65 kBTU 5.42 tons - 1 phase	\$ 100.00	per ton
AC less than 65 kBTU of 18.0 SEER or greater	\$ 140.00	per ton
AC 65 to 135 kBTU 5.42 to 11.25 tons	\$ 50.00	per ton
AC 135 to 239 KBTU 11.25 to 20 tons	\$ 50.00	per ton
AC 240 to 759 kBTU 20 to 63.3 tons	\$ 50.00	per ton
AC more than 760 kBTU 63.3 tons	\$ 50.00	per ton
Mini-Split Ductless Air Conditioners any size of 16 SEER or greater	\$ 250.00	EA
Quality Install less than 65 kBTU 5.42 tons - Adder to Incentives above.	\$ 80.00	per ton

### Air Conditioning Systems - single packaged systems

AC less than 65 kBTU 5.42 tons	\$ 50.00	per ton
AC less than 65 kBTU 5.42 tons of 18 SEER or greater	\$ 90.00	per ton
AC 65 to 135 kBTU 5.42 to 11.25 tons	\$ 50.00	per ton
AC 135 to 239 KBTU 11.25 to 20 tons	\$ 50.00	per ton
AC 240 to 759 kBTU 20 to 63.3 tons	\$ 50.00	per ton
AC more than 760 kBTU 63.3 tons	\$ 50.00	per ton

### Split System Air Source Heat Pumps

HVAC HP 65,000 1 Ph	\$ 100.00	per ton
HVAC HP 65,000 of 18.0 SEER or greater	\$ 140.00	per ton
HVAC HP 65,000 - 135,000	\$ 50.00	per ton
HVAC HP 135,000 - 240,000	\$ 50.00	per ton
HVAC HP 240,000	\$ 50.00	per ton
Mini-Split Ductless Air Source Heat Pump-any size of 16 SEER or greater	\$ 250.00	EA
Quality Install less than 65,000 Btu 5.42 tons - Adder to incentives above.	\$ 80.00	per ton

**Variable Refrigerant Flow Multi-Split Air Cooled Heat Pump**

Variable Refrigerant Flow Multi-Split Air Cooled Heat Pump (All Sizes)	\$ 75.00	per ton
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**Air Source Heat Pumps - single packaged systems**

HVAC HP 65,000 1 Ph	\$ 50.00	per ton
HVAC HP 65,000 for 18.0 SEER or greater	\$ 90.00	per ton
HVAC HP 65,000 3 Ph	\$ 50.00	per ton
HVAC HP 65,000 - 135,000	\$ 50.00	per ton
HVAC HP 135,000 - 240,000	\$ 50.00	per ton
HVAC HP 240,000 - 760,000	\$ 50.00	per ton
HVAC HP ≥ 760,000	\$ 50.00	per ton

**Ground Source Heat Pumps**

Ground Source HP Closed Loop - various types & sizes	\$ 200	per ton
Add a desuperheater	\$ 250.00	EA

**Energy Star Window and Wall Air Conditioners**

ES Window or wall AC under 14,000 Btu hr	\$ 25.00	EA
ES Window or wall AC over 14,000 Btu hr	\$ 25.00	EA

**Heat Pump Water Heaters**

HP Water Heater Energy Star qualified - residential style ≤55 gallons	\$ 75.00	EA
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**Chillers**

High Eff Air-Cooled Chiller - all sizes	\$ 50.00	per ton
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**Tier 1 Efficiency Water Cooled**

Centrifugal Water Cooled Chillers <150 ton	\$ 40.00	per ton
Centrifugal Water Cooled Chillers 150-300 ton	\$ 40.00	per ton
Centrifugal Water Cooled Chillers >300 ton	\$ 40.00	per ton
Scroll or Screw Water Cooled Chillers <150 ton	\$ 40.00	per ton
Scroll or Screw Water Cooled Chillers 150-300 ton	\$ 40.00	per ton
Scroll or Screw Water Cooled Chillers >300 ton	\$ 40.00	per ton

**Tier 2 Efficiency Water Cooled**

Centrifugal Water Cooled Chillers <150 ton	\$ 55.00	per ton
Centrifugal Water Cooled Chillers 150-300 ton	\$ 55.00	per ton
Centrifugal Water Cooled Chillers >300 ton	\$ 55.00	per ton
Scroll or Screw Water Cooled Chillers <150 ton	\$ 45.00	per ton
Scroll or Screw Water Cooled Chillers 150-300 ton	\$ 45.00	per ton
Scroll or Screw Water Cooled Chillers >300 ton	\$ 45.00	per ton

**Other Energy Efficient Cooling Technologies**

ECM in residential style furnace/air handler/fan coil	\$ 150.00	EA
ECM - HVAC Fan (exhaust or fan powered boxes)	\$ 100.00	EA
ECM Hot Water Circulator - less than 100 W	\$ 70.00	EA
ECM Hot Water Circulator - 100 - 500 W	\$ 350.00	EA
ECM Hot Water Circulator - greater than 500 W	\$ 1,000.00	EA
Demand controlled ventilation (carbon dioxide sensors)	\$ 35.00	per 1000 sq ft
Guest room energy management - PTACs	\$ 50.00	EA
Guest room energy management - PTHPs	\$ 50.00	EA
Window Film	\$ 0.40	per sq ft
Energy recovery ventilators (ERVs)	\$ 0.70	per CFM

### Pumps / Variable Frequency Drives (VFDs)

Pumps HP 1.5	\$ 60.00	EA
Pumps HP 2	\$ 70.00	EA
Pumps HP 3	\$ 100.00	EA
Pumps HP 5	\$ 100.00	EA
Pumps HP 7.5	\$ 200.00	EA
Pumps HP 10	\$ 260.00	EA
Pumps HP 15	\$ 300.00	EA
Pumps HP 20	\$ 400.00	EA
VFDs on HVAC fans & pumps, process pumps all sizes	\$ 40.00	per HP
VFDs on new air compressors	\$ 35.00	per HP

### Compressed Air Efficiency

Compressed Air Leak Detection Survey	40% of audit cost, \$5,000 max.	
VFDs on new air compressors	\$ 35.00	per HP
Engineered Nozzles for compressed air	\$ 20.00	EA
No-air loss drains - each	\$ 160.00	EA
Cycling refrigerated dryers	\$ 75.00	per 100 CFM
Dew point demand controls	\$ 150.00	per 100 CFM
Mist eliminators	\$ 4.00	per HP
Adding storage to achieve 5 gal/cfm storage	\$ 20.00	per HP
Low pressure blower replacing compressed air blow off	\$ 1,500.00	per blower HP

### Specialty / Misc. Equipment

High Frequency Battery Charger - Less than 24/7 operation	\$ 100.00	EA
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High Frequency Battery Charger - 24/7 operation	\$ 300.00	EA
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## Food Service & Commercial Refrigeration Equipment

ES Ice Machines less than 500 lbs per day	\$ 50.00	EA
ES Ice Machines 500-1000 lbs per day	\$ 200.00	EA
ES Ice Machines greater than 1000 lbs per day	\$ 300.00	EA
Commercial Dishwasher - under counter type - \$ depends on WH type	\$ 100 - 150	EA
Commercial Dishwasher - door type - \$ depends on WH type	\$ 225 - 500	EA
Commercial Dishwasher - single tank conveyer - \$ depends on WH type	\$ 225 - 425	EA
Commercial Dishwasher - multi-tank conveyer - \$ depends on WH type	\$ 525-1000	EA
Commercial Dishwasher - pot, pan, utensil unit - \$ depend on WH type	\$ 60-150	EA
ES 3 Pan Steam Cooker	\$ 600.00	EA
ES 4 Pan Steam Cooker	\$ 700.00	EA
ES 5 Pan Steam Cooker	\$ 800.00	EA
ES 6 Pan Steam Cooker	\$ 900.00	EA
ES Hot Holding Cabinets - Full Size Cabinets	\$ 400.00	EA
ES Holding Cabinets - Three Quarter Size	\$ 300.00	EA
ES Holding Cabinets - Half Size Cabinets	\$ 200.00	EA
ES Commercial Fryers	\$ 250.00	EA
ES Commercial Griddles	\$ 250.00	EA
ES Convection Ovens	\$ 200.00	EA
ES Combination Ovens	\$ 1,000.00	EA
LED horizontal case lighting - per foot of lamp	\$ 3.00	EA
LED horizontal case lighting - DLC Premium - per foot of lamp	\$ 4.00	EA
LED Reach-in refrigerated case lighting - per door	\$ 25.00	EA
LED Reach-in refrigerated case lighting - per door - DLC Premium	\$ 30.00	EA
Kitchen hood w temp or optical sensor w/ vfd exhaust and vfd makeup air	\$ 200.00	HP
Low heat freezer doors - per door	\$ 25.00	EA
No heat reach in freezer door	\$ 50.00	EA
No heat reach in cooler door	\$ 15.00	EA
ECM evap fan motors- walk-in freezers and coolers- excludes new const.	\$ 40.00	EA
ECM evap fan motors for compressors and condensers - per motor	\$ 50.00	EA
ECM fan motors for reach-in cases - per motor - excludes new const.	\$ 20.00	EA
Reach-in cooler/freezer cases with doors replacing multi-deck cases	\$ 30.00	per linear ft
Occupancy sensor controlling LED case lighting - per door	\$ 5.00	EA

## Custom / Audits / Design Review

Custom Base Incentive	\$ 270.00	per kW
Retrocommissioning	50 to 100% of study cost	
Design Review Program	Incentives per Custom Program	

## Residential Programs

Residential HVAC		
Ground Source HP Closed Loop Residential	\$ 200.00	per ton
Add a desuperheater	\$ 250.00	EA
ECM motor in air handler/fan coil	\$ 150.00	EA
ECM motor in natural gas furnace	\$ 150.00	EA
Air Source Heat Pump	\$ 250.00	EA
Air Source Heat Pump of 18.0 SEER or greater	\$ 350.00	EA
Mini-Split Ductless Air Source Heat Pump - 16 SEER or greater	\$ 250.00	EA
Central Air Conditioner	\$ 250.00	EA
Central Air Conditioner of 18.0 SEER or greater	\$ 350.00	EA
Mini-Split Ductless Air Conditioner - 16 SEER or greater	\$ 250.00	EA
Electric Heat Pump Water Heater (≤55 Gallons)	\$ 75.00	EA
ENERGY STAR® Programmable Thermostat	\$ 25.00	EA
Central A/C and Air Source Heat Pump Tuneup	\$ 30.00	EA
Central A/C Quality Install - Adder to standard incentives listed above.	\$ 200.00	EA
Central Heat Pump Quality Install - Adder to standard incentives listed above.	\$ 200.00	EA

### ENERGY STAR Products

LED Screw In Lamp	\$ 1.50	EA
LED Downlight (Fixture or Retrofit Kit - NOT screw in replacement lamps)	\$ 4.00	EA
ES Room AC	\$ 25.00	EA
ES Dehumidifier	\$ 25.00	EA
ES Clothes Washer	\$ 25.00	EA
ES Refrigerator	\$ 25.00	EA

### iii. Calculation of Savings

The savings calculations for all prescriptive rebates under Bright Energy Solutions are based on the algorithms provided by the Minnesota Division of Energy Resources (MN DER) in its Technical Resource Manual (TRM). If the BES program provides prescriptive rebates for measures that are not included in the MN TRM, those savings are calculated by consultant Franklin Energy of Port

Washington, Wisconsin. Franklin Energy uses engineering calculations and the deemed savings from other state TRMs to determine savings. For custom rebates, the kW and kWh savings are determined using engineering calculations. Customers and contractors submit their projects to MRES for review, including estimated kW and kWh savings. MRES staff, and/or its consultant, reviews these projects and savings estimates and determines the level of incentive to be awarded. For projects where savings of 1 million kWhs or more are anticipated, pre and post-metering is required. This review of the savings analysis helps assure that MRES funds are being cost effectively used to promote efficiency.

*iv. Environmental Benefits*

In addition to helping customers reduce and manage their energy costs, the Bright Energy Solutions programs provide other societal benefits. These benefits include reduced emissions of CO<sub>2</sub>, carbon monoxide, SO<sub>x</sub>, and NO<sub>x</sub>. The estimated value of the environmental benefits was considered as part of the Societal Test when determining cost-effectiveness of the programs.

***J. Coordinated Demand Response Program***

On a parallel track with Bright Energy Solutions, MRES also began to develop a Coordinated Demand Response (CDR) program designed to encourage members to install or update load control equipment that would allow MRES and its members to shift customer load during times of peak demand to non-peak periods. Load control/demand response can be achieved through direct load control, interruptible service, building pre-heating/pre-cooling or storage, industrial process load control, or response to market prices. MRES will pay a verification payment based on the number of control points connected to the load management system and an annual verification of such points. The payment amounts are \$5.00 per year for each controlled central air conditioner and \$1.75 per year for each controlled electric water heater the member controls during the member's summer peak demand period and provides verification of such control.

*i. Shared Benefits of CDR*

MRES first focused on direct load control of air conditioners and electric water heaters since many MRES members were familiar with that technology and many already had equipment in place that could be used or updated. In 2011, MRES began to offer an incentive for every air conditioner and electric water heater that was controlled during the summer months of June, July, August and September. Testing and reporting requirements were put in place to ensure that the load control system was working properly and that load reduction was actually achieved. The incentive applies to members with existing load control systems as well as new systems that are operated under the CDR program.

Several barriers to the implementation of new direct load control by individual MRES member utilities were uncovered by the DSM Task Force. The primary barrier was that members did not have sufficient staff to install equipment, develop control strategies, monitor, operate, and test a direct load control system. To address this issue, MRES developed a CDR program that could be monitored and operated by MRES staff and/or individual member staff. The CDR program provides the following benefits:

- Lower demand charges for MRES members
- Cost-effective alternative to future peaking capacity for MRES
- Shared software/hardware costs
- Shared expertise/labor in operating the system
- Group pricing on load control devices and software fees
- Less staff time for MRES members

*ii. CDR Participation*

The development of the CDR program has been fairly slow due to the high capital investment associated with the installation of a load control system and with the time that it takes to install a system. Also, members wanted to coordinate any investment made in load control equipment with their plans to install advanced metering infrastructure (AMI), since both systems could use some of the same technology and communications systems. As of 2018, twelve members of MRES are participating in the CDR program and are at various stages of implementation. One of those members is installing CDR and AMI equipment simultaneously. AMI equipment may allow members to achieve demand response using dynamic price signals in the future.

*iii. CDR Results*

The following are the 2011 through 2018 direct load control results reported either by members with existing load control systems or through CDR participation:

	<b>AC Points Controlled</b>	<b>AC Load Reduction kW</b>	<b>WH Points Controlled</b>	<b>WH Points Reduction kW</b>
2011	8,732	8,732	8,318	2,911
2012	11,784	11,784	9,083	3,179
2013	11,952	11,952	8,815	3,085
2014	12,383	12,383	9,249	3,237

2015	13,964	13,964	10,883	3,809
2016	14,501	14,501	10,851	3,797
2017	15,302	15,302	11,602	4,060
2018	15,099	15,099	12,218	4,276
<b>Totals</b>	<b>103,717</b>	<b>103,717</b>	<b>81,019</b>	<b>28,354</b>

## II. Flandreau, SD Resource Planning

### A. *City Information*

Flandreau, located in Moody County, is a community of more than 2,300 individuals located in eastern South Dakota. The residential sector includes 1,091 housing units. The median age of the population is 38.4 years. About 18.6% of the population is 65 years of age or older and about 25.9% percent are under 18 years old.

In 2017, the municipal utility had 1,061 residential customers, 287 commercial customers, and 4 industrial customers. The residential sector's yearly usage averaged 10,016 kWh per customer in 2017. Commercial customers averaged 56,432 kWh, and industrial customers averaged 58,500 kWh.

The rates for each type of customer are shown in Exhibit 1. Exhibit 2 contains the numerical values used to generate the seasonal graphs in Exhibits 3 and 4, which show the winter and summer peak demand and energy for the seasons 2006 through 2023 with forecasted values after 2018. Exhibits 5 and 6 show the total power purchases on a half hour basis, for the 2017-2018 winter season and the 2018 summer season, respectively.

Exhibits 7 and 8 each show the peak day (along with the day before and the day after) for the summer and winter seasons.

## Exhibit 1

### FLANDREAU, SOUTH DAKOTA CURRENT RETAIL ELECTRIC RATE SCHEDULE

Customer Class	Rate Component	Current Rate
Residential	Customer Charge	\$14.50
	\$/kWh (Jul-Sept)	\$.1040
	\$/kWh (Oct-Jun)	\$.0840
Small Commercial	Customer Charge	\$24.50
	\$/kWh (Jul-Sept)	\$.1120
	\$/kWh (Oct-Jun)	\$.0910
Large Commercial	Customer Charge	\$66.00
	\$/kWh	\$.0370
	\$/kW (Jul-Sept)	\$20.40
	\$/kW (Oct-Jun)	\$14.80

## Exhibit 2

### FLANDREAU, SD

MRES Seasonal Load  
Report

Town Gate Load

BASE Forecast

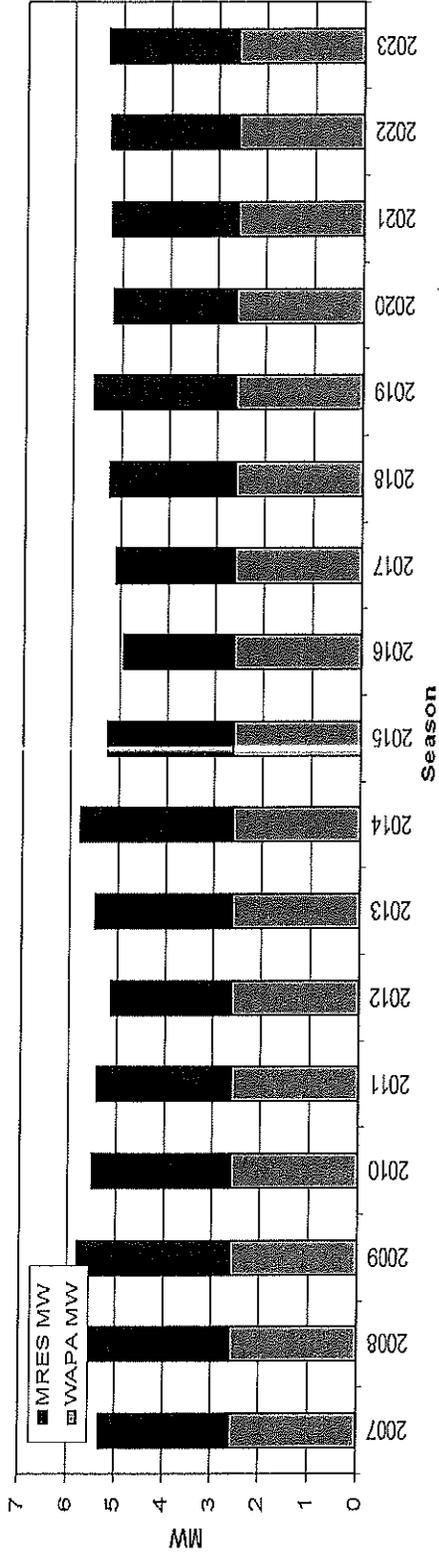
Monthly Splits

Historic Through 4/2019

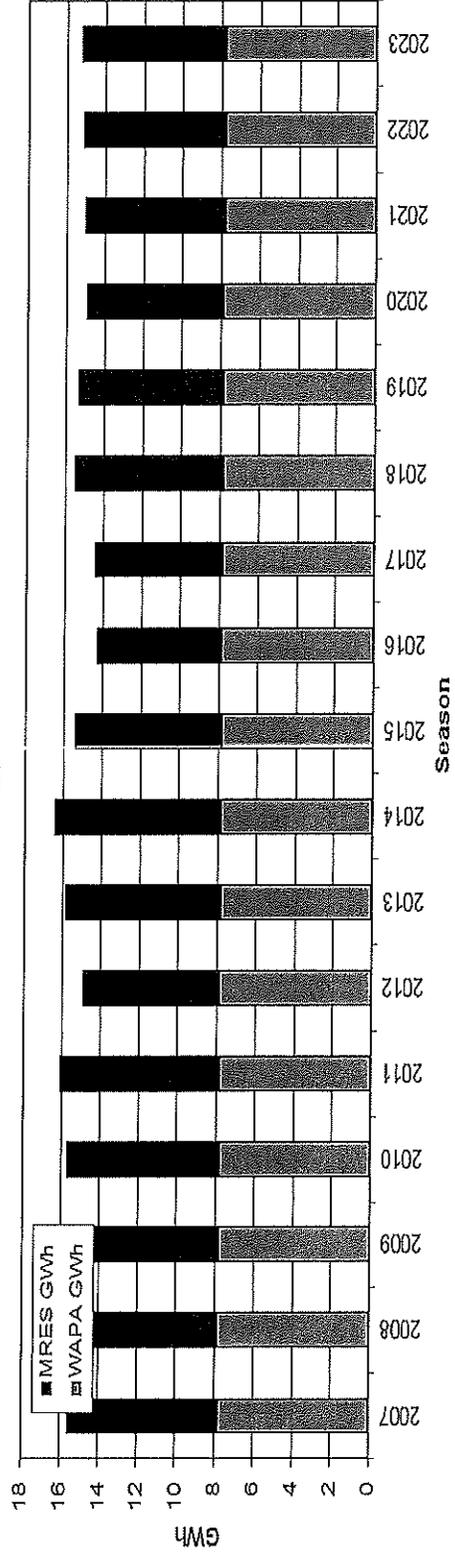
Demand (kW)				Energy (kWh)			
Summer	Total	WAPA	MRES	Summer	Total	WAPA	MRES
2006	6,532	2,784	4,227	2006	14,636,060	6,751,000	7,885,060
2007	6,148	2,784	3,843	2007	14,577,580	6,751,000	7,826,580
2008	5,858	2,784	3,553	2008	13,981,424	6,751,000	7,230,424
2009	5,430	2,784	3,180	2009	13,568,349	6,751,000	6,817,349
2010	6,200	2,784	3,729	2010	14,605,558	6,751,000	7,854,558
2011	6,690	2,784	4,385	2011	14,473,307	6,751,000	7,722,307
2012	6,541	2,784	4,236	2012	15,050,148	6,751,000	8,299,148
2013	6,502	2,784	3,854	2013	14,789,088	6,751,000	8,038,088
2014	5,738	2,784	3,236	2014	13,904,405	6,751,000	7,153,405
2015	5,819	2,784	3,514	2015	14,131,358	6,751,000	7,380,358
2016	6,029	2,784	3,724	2016	13,945,395	6,751,000	7,194,395
2017	5,835	2,784	3,530	2017	13,761,692	6,751,000	7,010,692
2018	6,143	2,784	3,838	2018	14,211,395	6,751,000	7,460,395
2019	5,591	2,784	3,286	2019	13,559,320	6,751,000	6,808,320
2020	5,628	2,784	3,323	2020	13,649,336	6,751,000	6,898,336
2021	5,665	2,756	3,383	2021	13,738,212	6,684,000	7,054,212
2022	5,701	2,756	3,419	2022	13,826,397	6,684,000	7,142,397
2023	5,737	2,756	3,455	2023	13,913,903	6,684,000	7,229,903
Demand (kW)				Energy (kWh)			
Winter	Total	WAPA	MRES	Winter	Total	WAPA	MRES
2007	5,192	2,599	2,724	2007	15,590,766	7,840,000	7,750,766
2008	5,547	2,599	2,948	2008	16,289,895	7,891,000	8,398,895
2009	5,762	2,599	3,206	2009	15,973,011	7,840,000	8,133,011
2010	5,485	2,599	2,905	2010	15,720,590	7,840,000	7,880,590
2011	5,374	2,599	2,818	2011	16,082,769	7,840,000	8,242,769
2012	5,129	2,599	2,530	2012	14,906,299	7,891,000	7,015,299
2013	5,467	2,599	2,868	2013	15,858,832	7,840,000	8,018,832
2014	5,794	2,599	3,195	2014	16,414,700	7,840,000	8,574,700
2015	5,236	2,599	2,637	2015	15,368,477	7,840,000	7,528,477
2016	4,924	2,599	2,325	2016	14,316,644	7,891,000	6,425,644
2017	5,045	2,599	2,489	2017	14,468,209	7,840,000	6,628,209
2018	5,235	2,599	2,636	2018	15,492,579	7,840,000	7,652,579
2019	5,544	2,599	2,988	2019	15,331,373	7,840,000	7,491,373
2020	5,189	2,599	2,590	2020	14,959,909	7,891,000	7,068,909
2021	5,223	2,573	2,650	2021	15,057,965	7,788,000	7,269,965
2022	5,256	2,573	2,683	2022	15,155,095	7,762,000	7,393,095
2023	5,290	2,573	2,717	2023	15,251,475	7,762,000	7,489,475

### Exhibit 3

Flandreau, SD  
Winter Demand - Town Gate

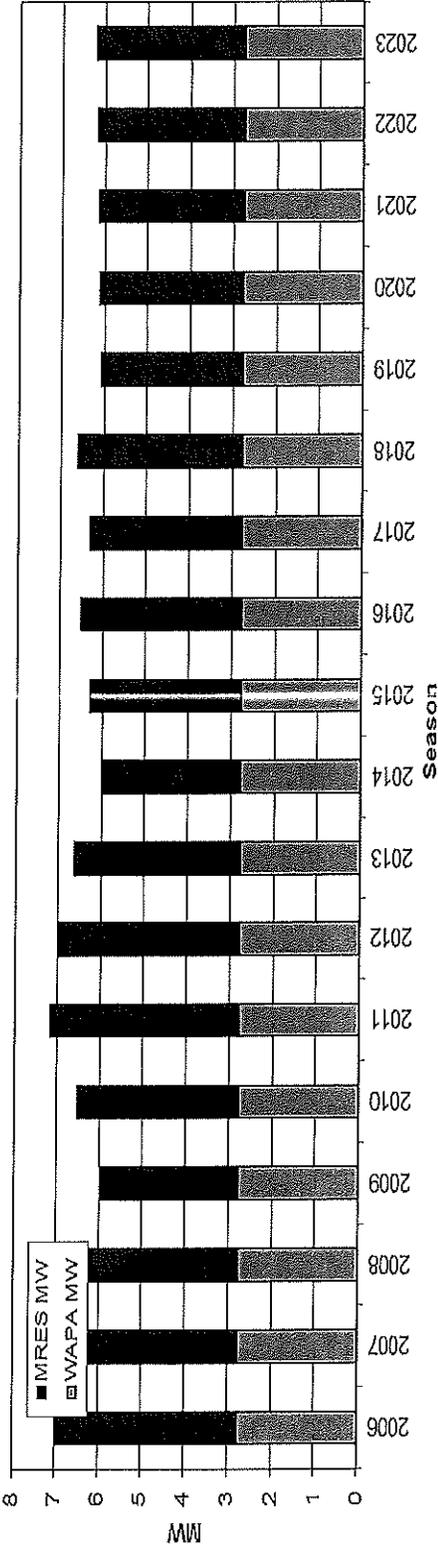


Flandreau, SD  
Winter Energy - Town Gate

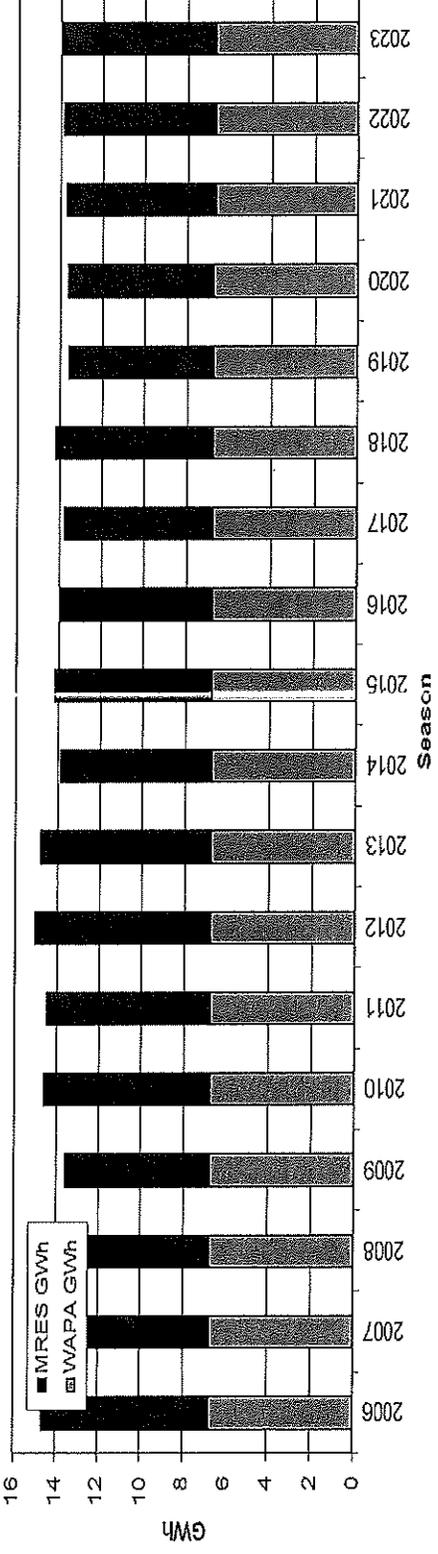


# Exhibit 4

Flandreau, SD  
Summer Demand - Town Gate

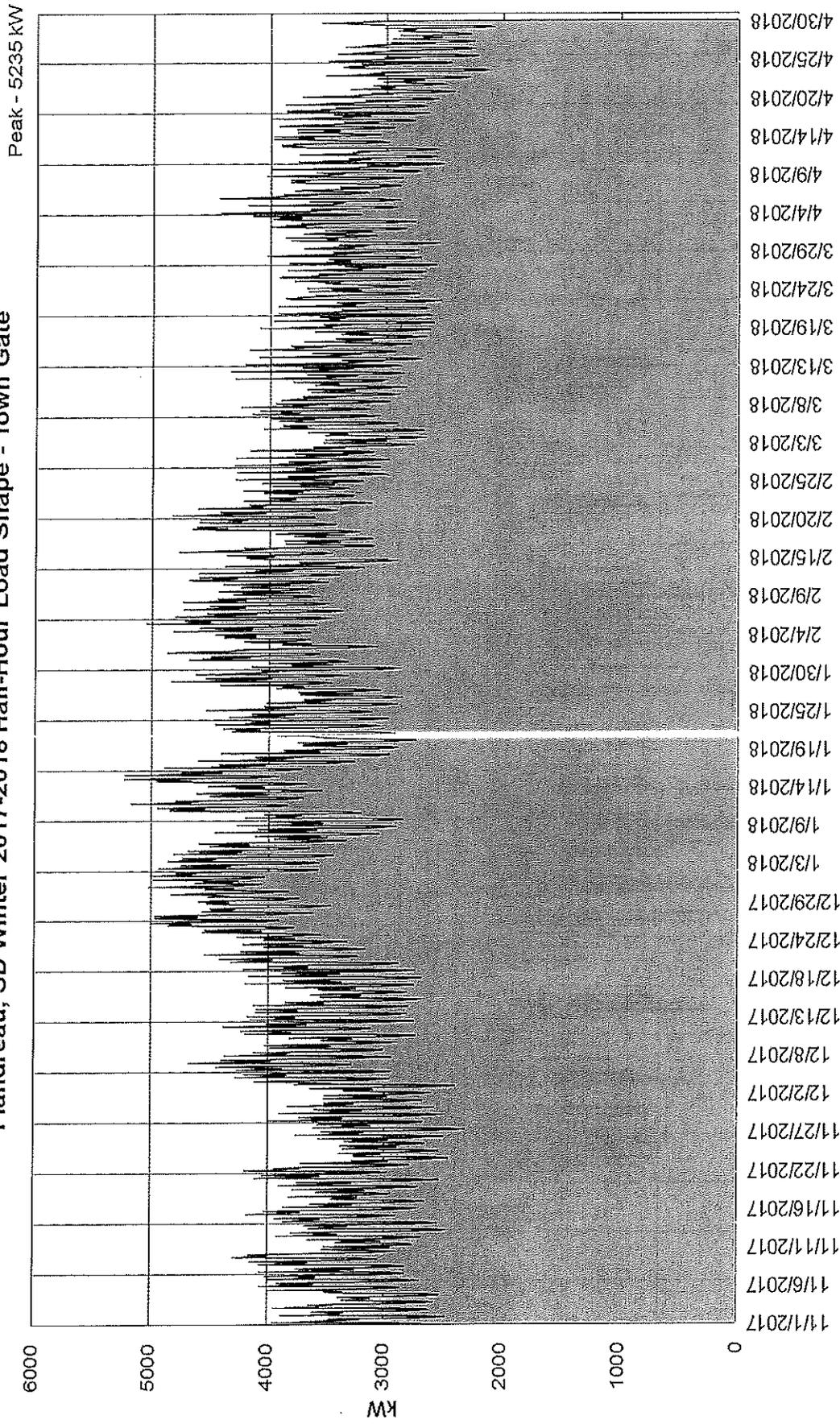


Flandreau, SD  
Summer Energy - Town Gate



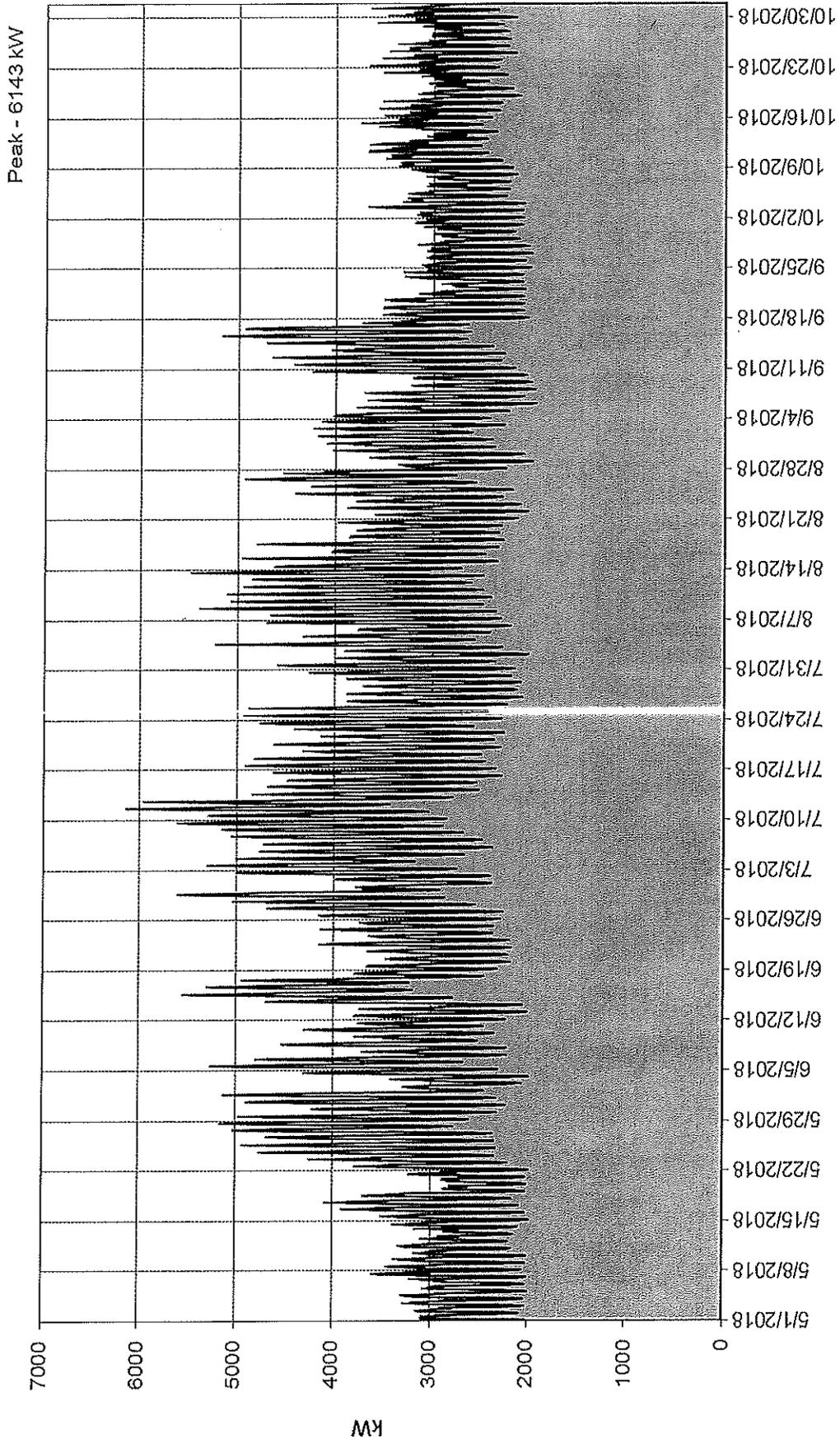
# Exhibit 5

## Flandreau, SD Winter 2017-2018 Half-Hour Load Shape - Town Gate



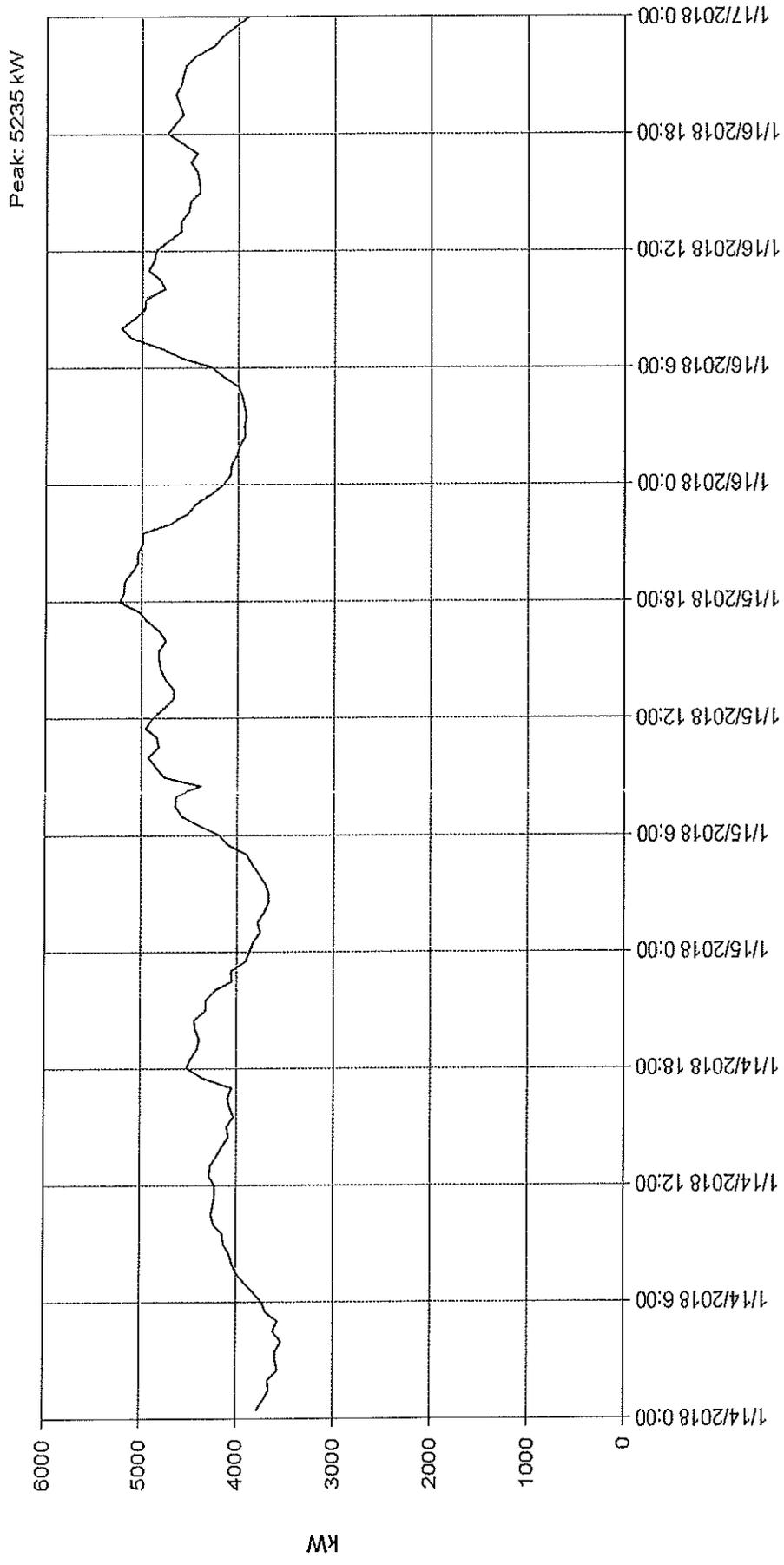
# Exhibit 6

## Flandreau, SD Summer 2018 Half-Hour Load Shape - Town Gate



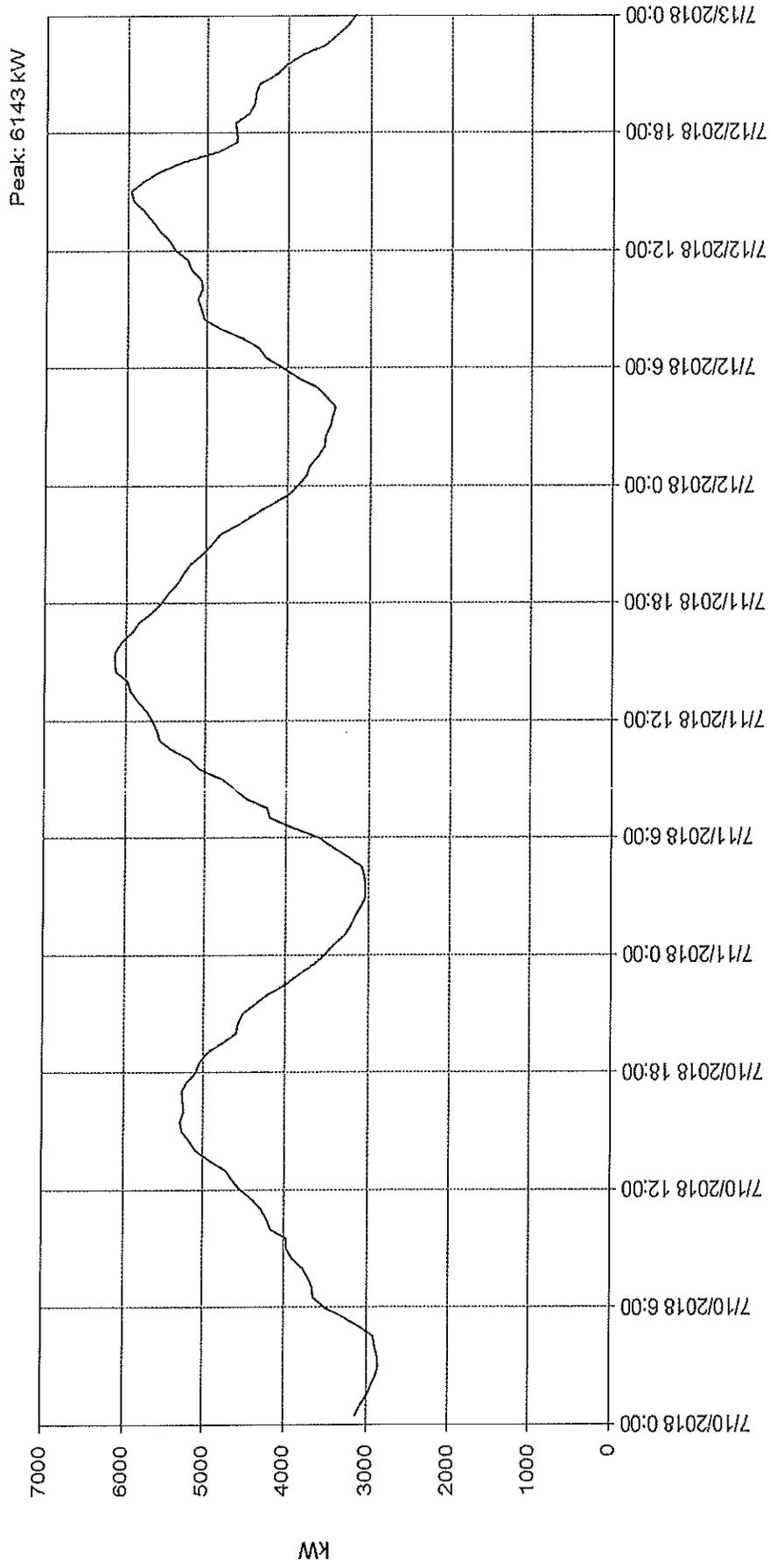
# Exhibit 7

## Flandreau, SD Peak Half-Hour Load Shape, Winter 2017-2018, Town Gate



# Exhibit 8

## Flandreau, SD Peak Half-Hour Load Shape, Summer 2018, Town Gate



## ***B. Supply-side Efforts***

As explained in the section detailing MRES Resource Planning activities, MRES conducts all supply-side resource planning for its members. MRES studied traditional, as well as renewable, energy sources in its resource plan.

All supplemental power for Flandreau is supplied through its joint S-1 agreement with other MRES members. All MRES resources are used to supply all of its S-1 members as a group. Therefore, it is neither possible nor necessary for Flandreau to individually study supply-side resources as part of this IRP.

## ***C. Historic DSM Efforts***

Flandreau has been active in pursuing new DSM programs, and participates in the Bright Energy Solutions (BES) Program through MRES. The BES Program offerings were developed after considering the major markets, the saturation of electric and gas appliances, and the characteristics of the customers. The information was analyzed to determine both the technical and cost-saving potential of energy management improvements, any barriers that might be encountered to implementing the improvements, the realistic expectation for program participation, and any net savings that would result from the programs.

The table shown in Exhibit 9 below is a summary of the DSM activities that were installed between 2014 and 2018. DSM activities installed before 2014 can be found in the 2014 IRP filing. The first column indicates the year of installation. The second column indicates the program category. The third column shows the number of measures installed. The fourth column shows the total incentives paid by MRES. The last two columns show the kW and kWh saved on an annual basis by the new installations. For more detailed information showing exact types of measures installed, please see the end of this section.

## Exhibit 9 - Summary of DSM Activities 2014-2018

Utility Name	Flandreau			
Program/Measure	Quan	Incentive	kW	kWh
<b>2014</b>	<b>1021</b>	<b>\$ 9,204</b>	<b>30.1</b>	<b>67915</b>
C&I HVAC	3	\$ 450	0.7	1696
Direct Installation at Customer Location	6	\$ -	0.5	2595
Energy Star Appliances	4	\$ 150	0.1	936
Lighting New Construction	55	\$ 2,750	8.3	19940
Lighting Retrofit	946	\$ 5,254	17.9	39763
Residential HVAC	6	\$ 550	2.6	2885
Specialty Measures	1	\$ 50	0.0	100
<b>2015</b>	<b>400</b>	<b>\$ 24,318</b>	<b>77.0</b>	<b>85869</b>
C&I HVAC	2	\$ 850	1.9	1335
Custom Electric Program	0	\$ 17,475	58.3	1
Direct Installation at Customer Location	18	\$ -	0.8	3216
Energy Star Appliances	85	\$ 514	0.6	4095
Lighting New Construction	95	\$ 1,354	3.9	22172
Lighting Retrofit	195	\$ 3,399	9.9	52167
Residential HVAC	5	\$ 725	1.7	2883
<b>2016</b>	<b>1545</b>	<b>\$ 16,171</b>	<b>45.1</b>	<b>224628</b>
C&I HVAC	4	\$ 750	1.1	2765
Commercial Refrigeration	5	\$ 1,150	1.9	16760
Custom Electric Program	0	\$ 2,570	8.3	25910
Energy Star Appliances	201	\$ 697	1.0	8830
Lighting New Construction	26	\$ 360	1.0	4134
Lighting Retrofit	1307	\$ 10,514	31.6	164255
Residential HVAC	2	\$ 130	0.3	1974
<b>2017</b>	<b>78</b>	<b>\$ 5,449</b>	<b>14.6</b>	<b>65091</b>
C&I Custom (non-lighting)	0	\$ 3,679	11.9	50967
Commercial Refrigeration	1	\$ 250	0.4	4186
Lighting New Construction	23	\$ 168	0.7	3842
Residential Energy Star Products	48	\$ 602	0.4	3533
Residential HVAC	6	\$ 750	1.1	2563
<b>2018</b>	<b>187</b>	<b>\$ 4,363</b>	<b>10.8</b>	<b>57309</b>
Lighting New Construction	18	\$ 468	0.7	4535
Lighting Retrofit	88	\$ 1,524	5.5	31270
Residential Energy Star Products	69	\$ 316	0.6	5664
Residential HVAC	12	\$ 2,055	3.9	15840
<b>Grand Total</b>	<b>3231</b>	<b>\$ 59,504</b>	<b>177.6</b>	<b>500811</b>

## *D. Evaluation of Alternatives*

As explained in the section detailing MRES Resource Planning activities, PA Consulting performed a DSM Potential Study for MRES and its members. In this study, many different DSM measures were evaluated for technical, market and economic potential. Once this list of programs and incentives was made available by MRES, Flandreau was free to choose from the list of Bright Energy Solutions programs and incentives, or to pursue other measures on their own and without any incentives from MRES.

## *E. Options Chosen – Development of Action Plan*

### *i. Future Actions*

It is assumed that Flandreau will continue to participate in the Bright Energy Solutions program. Flandreau would have virtually no out-of-pocket costs, as MRES will be paying the incentives for all of these programs. It is planned that Flandreau will participate in all of the Bright Energy Solutions programs to the extent possible. This assumption was made only to obtain more realistic expectations for the five-year plan, and is certainly not considered to be a cap on participation in the event that the program attracts more participants than anticipated.

Representatives from Flandreau plan to utilize the MRES marketing materials for all the programs made available in the Bright Energy Solutions program, and take advantage of MRES assistance when possible, and will be working closely with their assigned MRES field representative.

At this time, it is unknown if Flandreau will participate in the MRES Coordinated Demand Response (CDR) program in the future. That decision will be evaluated in years to come.

### *ii. Milestones*

As part of the annual WAPA IRP updates, Flandreau will evaluate the progress on these programs. The success will be measured against this 5-year plan, with adjustments made for actual customer participation, and any changes or additions to the Bright Energy Solutions programs.

Measurement and validation of the Bright Energy Solutions programs will be ongoing. Quality control, measurement of savings, verification tracking, and program evaluation are important components of a successful DSM program and they are critical to MRES if DSM is to be relied upon as a power resource. For verification purposes, all incentive applications receive a calculation review. An engineering review of savings calculations is conducted on all custom installations, except for custom lighting. Field inspections are completed on a

minimum of 5% of all installations and on 100% of installations over \$20,000 in total incentives and on 100% of custom projects.

For custom projects, MRES requires detailed estimates of kW and kWh savings that will be achieved as a result of the project, along with the sources and references for all values used. This may include certification of savings calculations by a qualified engineer. For projects with estimated savings larger than 1,000,000 kWh per year, or for projects involving new technology, MRES may require that energy savings be verified through metering or energy testing of kW and kWh before and after installation of the proposed equipment.

#### ***F. Environmental Effects***

The environmental benefits of the DSM programs were not calculated specifically. However, any program that decreases energy consumption will, by definition, decrease the amount of energy generated. Given that a majority of generation is from non-renewable sources, DSM programs will serve to decrease emissions. Additionally, DSM programs that reduce electric demand will mean fewer new generation facilities will need to be constructed in the future.

#### ***G. Public Participation***

A preliminary draft of this report was produced on June 25, 2014. A notice of public hearing on IRP was published in the local newspaper on July 9, 2014. The public hearing on the IRP was held at the July 21, 2014 City Council meeting. A summary of any comments and responses made during the meeting are included in the Appendix. The City Council approved the resolution on July 21, 2014. A copy of the approved resolution is included in Appendix 2.

<i>IRP Approval Process</i>	
Preliminary Draft Date	<b><i>6/25/2014</i></b>
Date Published in Paper	<b><i>7/9/2014</i></b>
Public Hearing Date	<b><i>7/21/2014</i></b>
Date Approved by City Council	<b><i>7/21/2014</i></b>

## Appendix 1 – Detailed DSM Measures Installed

Utility Name	Flandreau				
Program/Measure	Quan	Incentive	kW	kWh	
<b>2014</b>	<b>1021</b>	<b>\$ 9,204</b>	<b>30.1</b>	<b>67915</b>	
<b>C&amp;I HVAC</b>	<b>3</b>	<b>\$ 450</b>	<b>0.7</b>	<b>1696</b>	
ECM in Res Style Furnace	1	\$ 150	0.2	400	
Setback/Programmable Thermostats	1	\$ 50	0.1	882	
Unitary Air Cooled Split Sys AC <65k Btuh (1ph)	1	\$ 250	0.4	414	
<b>Direct Installation at Customer Location</b>	<b>6</b>	<b>\$ -</b>	<b>0.5</b>	<b>2595</b>	
LED Screw-in Replacement Lamp	6	\$ -	0.5	2595	
<b>Energy Star Appliances</b>	<b>4</b>	<b>\$ 150</b>	<b>0.1</b>	<b>936</b>	
Energy Star Dishwasher	2	\$ 50	0.0	126	
Energy Star Refrigerator	2	\$ 100	0.1	810	
<b>Lighting New Construction</b>	<b>55</b>	<b>\$ 2,750</b>	<b>8.3</b>	<b>19940</b>	
T8 4ft Hi Bay Fixture	55	\$ 2,750	8.3	19940	
<b>Lighting Retrofit</b>	<b>946</b>	<b>\$ 5,254</b>	<b>17.9</b>	<b>39763</b>	
Compact Fluorescent Fixtures & Lamps	30	\$ 540	1.6	3671	
LED & Induction Tech	59	\$ 870	3.2	6985	
Othr Eff Ltg Tech - per Unit	30	\$ 680	1.7	4882	
Rducd Wtg T8 4ft w Reflector/Delamping	7	\$ 147	0.7	1239	
Rducd Wtg T8 Lamps ONLY	630	\$ 630	1.9	4945	
Reduced Wtg T8 4ft CEE Qual	183	\$ 2,345	8.8	17793	
T8 4ft w/Elec Bal	7	\$ 42	0.1	248	
<b>Residential HVAC</b>	<b>6</b>	<b>\$ 550</b>	<b>2.6</b>	<b>2885</b>	
HVAC Central AC unit	2	\$ 200	2.0	1071	
HVAC HE Furnace with ECM	2	\$ 300	0.4	1440	
Programmable Thermostat - Propane, Fuel Oil,					
Boiler w/AC	2	\$ 50	0.2	374	
<b>Specialty Measures</b>	<b>1</b>	<b>\$ 50</b>	<b>0.0</b>	<b>100</b>	
Energy Star Clothes Washer - Elec WH	1	\$ 50	0.0	100	
<b>2015</b>	<b>400</b>	<b>\$ 24,318</b>	<b>77.0</b>	<b>85869</b>	
<b>C&amp;I HVAC</b>	<b>2</b>	<b>\$ 850</b>	<b>1.9</b>	<b>1335</b>	
Unitary Single Pkgd AC 065k - 135k Btuh	2	\$ 850	1.9	1335	
<b>Custom Electric Program</b>	<b>0</b>	<b>\$ 17,475</b>	<b>58.3</b>	<b>1</b>	
HVAC: CustomGeothermal hybrid System 0					
kWh savings	0	\$ 17,475	58.3	1	
<b>Direct Installation at Customer Location</b>	<b>18</b>	<b>\$ -</b>	<b>0.8</b>	<b>3216</b>	
LED Screw-in Replacement Lamp	18	\$ -	0.8	3216	
<b>Energy Star Appliances</b>	<b>85</b>	<b>\$ 514</b>	<b>0.6</b>	<b>4095</b>	
Energy Star Ceiling Fan w/ Light Kit	2	\$ 50	0.0	242	

Energy Star Clothes Washer	3	\$ 150	0.1	393
Energy Star Dishwasher	2	\$ 50	0.0	76
Energy Star Refrigerator	1	\$ 20	0.0	132
ES Res Lighting - LED Screw-in Lamp	76	\$ 219	0.3	3065
Programmable Thermostat	1	\$ 25	0.1	187
<b>Lighting New Construction</b>	<b>95</b>	<b>\$ 1,354</b>	<b>3.9</b>	<b>22172</b>
CEE Qual T8 4ft Hi Performance System	75	\$ 354	1.1	6324
T8 4ft Hi Bay Fixture	20	\$ 1,000	2.7	15848
<b>Lighting Retrofit</b>	<b>195</b>	<b>\$ 3,399</b>	<b>9.9</b>	<b>52167</b>
LED & Induction Tech	143	\$ 1,539	5.7	23442
T8 4ft w/Elec Bal	32	\$ 160	0.4	2276
T8 Hi Bay Fixtures w/ 4ft Lamps Replacing	20	\$ 1,700	3.8	26449
<b>Residential HVAC</b>	<b>5</b>	<b>\$ 725</b>	<b>1.7</b>	<b>2883</b>
HVAC Central AC unit	1	\$ 250	1.0	536
HVAC HE Furnace with ECM	3	\$ 450	0.6	2160
Programmable Thermostat - Propane, Fuel Oil, Boiler w/AC	1	\$ 25	0.1	187
<b>2016</b>	<b>1545</b>	<b>\$ 16,171</b>	<b>45.1</b>	<b>224628</b>
<b>C&amp;I HVAC</b>	<b>4</b>	<b>\$ 750</b>	<b>1.1</b>	<b>2765</b>
ECM in Res Style Furnace	1	\$ 150	0.2	720
Setback/Programmable Thermostats	2	\$ 100	0.2	1644
Unitary Air Cooled Split Sys AC <65k Btuh (1ph)	1	\$ 500	0.6	401
<b>Commercial Refrigeration</b>	<b>5</b>	<b>\$ 1,150</b>	<b>1.9</b>	<b>16760</b>
ES Comm Glass Door Freezers	2	\$ 500	1.6	14236
ES Comm Glass Door Refrigerators	3	\$ 650	0.3	2524
<b>Custom Electric Program</b>	<b>0</b>	<b>\$ 2,570</b>	<b>8.3</b>	<b>25910</b>
Lighting: Custom	0	\$ 390	1.2	11392
Lighting: Custom 42 8ft HO fixtures with 95 Watt lamps 227 x 42=9534 Watts 9.5	0	\$ 2,180	7.1	14518
<b>Energy Star Appliances</b>	<b>201</b>	<b>\$ 697</b>	<b>1.0</b>	<b>8830</b>
Energy Star Refrigerator	2	\$ 100	0.1	810
ES Res Lighting - LED Screw-in Lamp	199	\$ 597	0.9	8020
<b>Lighting New Construction</b>	<b>26</b>	<b>\$ 360</b>	<b>1.0</b>	<b>4134</b>
LED Energy Star Recessed Downlight	1	\$ 25	0.1	213
LED Energy Star Screw-in Replacement Lamp	21	\$ 315	0.9	3752
LED Troffer DLC Qualified	4	\$ 20	0.0	169
<b>Lighting Retrofit</b>	<b>1307</b>	<b>\$ 10,514</b>	<b>31.6</b>	<b>164255</b>
4' LED Linear Lamps DCL Qual	712	\$ 2,232	6.9	37150
LED & Induction Tech	543	\$ 7,424	21.9	113342
LED 2 or 4 Pin-Based Repl Lamps	24	\$ 120	0.3	1875
Othr Eff Ltg Tech - per Unit	2	\$ 90	0.3	1903
Rducd Wtg T8 4ft w Reflector/Delamping	20	\$ 540	1.8	8590
Reduced Wattage T8 Fluorescent Systems	6	\$ 108	0.3	1395

<b>Residential HVAC</b>	<b>2</b>	<b>\$ 130</b>	<b>0.3</b>	<b>1974</b>
HVAC HP Water Heater	1	\$ 100	0.2	1889
Summer AC Tune-Up	1	\$ 30	0.1	85
<b>2017</b>	<b>78</b>	<b>\$ 5,449</b>	<b>14.6</b>	<b>65091</b>
<b>C&amp;I Custom (non-lighting)</b>	<b>0</b>	<b>\$ 3,679</b>	<b>11.9</b>	<b>50967</b>
Lighting: Custom	0	\$ 3,679	11.9	50967
<b>Commercial Refrigeration</b>	<b>1</b>	<b>\$ 250</b>	<b>0.4</b>	<b>4186</b>
ENERGY STAR Commercial Solid Door Freezers > 50 Cu Ft	1	\$ 250	0.4	4186
<b>Lighting New Construction</b>	<b>23</b>	<b>\$ 168</b>	<b>0.7</b>	<b>3842</b>
LED Energy Star Screw-in Replacement Lamp	10	\$ 90	0.5	2673
LED Troffer DLC Qualified	13	\$ 78	0.2	1169
<b>Residential Energy Star Products</b>	<b>48</b>	<b>\$ 602</b>	<b>0.4</b>	<b>3533</b>
Energy Star Clothes Dryer	2	\$ 160	0.1	366
ENERGY STAR Clothes Dryer (Electric)	1	\$ 80	0.0	183
Energy Star Clothes Washer	3	\$ 150	0.1	594
ENERGY STAR Clothes Washer W/ Elec WH and Elec Dryer	1	\$ 50	0.0	198
Energy Star Refrigerator	1	\$ 50	0.0	405
ENERGY STAR Refrigerator No Recycling	1	\$ 20	0.0	132
ES Res Lighting - LED Recessed Can	7	\$ 28	0.0	365
ES Res Lighting - LED Screw-in Lamp	32	\$ 64	0.1	1290
<b>Residential HVAC</b>	<b>6</b>	<b>\$ 750</b>	<b>1.1</b>	<b>2563</b>
Central AC 15 SEER	1	\$ 250	0.3	175
Furnace W/ECM	1	\$ 150	0.2	720
HVAC HE Furnace with ECM	2	\$ 300	0.4	1440
Programmable Thermostat - Propane, Fuel Oil, Boiler w/AC	1	\$ 25	0.1	41
Programmable Thermostat (Natural Gas Boiler With/AC)	1	\$ 25	0.1	187
<b>2018</b>	<b>187</b>	<b>\$ 4,363</b>	<b>10.8</b>	<b>57309</b>
<b>Lighting New Construction</b>	<b>18</b>	<b>\$ 468</b>	<b>0.7</b>	<b>4535</b>
LED High Bay Fixtures 111-160 W	15	\$ 450	0.6	4271
LED Troffer 3000 - 5799 Lumens	3	\$ 18	0.0	263
<b>Lighting Retrofit</b>	<b>88</b>	<b>\$ 1,524</b>	<b>5.5</b>	<b>31270</b>
Custom - Lighting	0	\$ 1,170	2.6	13253
LED ENERGY STAR Screw-In Lamp >= 600 Lumens	64	\$ 192	2.0	12214
LED Exit Sign	6	\$ 72	0.1	842
LED Screw-In Flood/Reflector Lamp >= 420 Lumens	18	\$ 90	0.8	4961
<b>Residential Energy Star Products</b>	<b>69</b>	<b>\$ 316</b>	<b>0.6</b>	<b>5664</b>
ENERGY STAR Clothes Dryer (Electric)	1	\$ 80	0.0	183
ENERGY STAR Refrigerator No Recycling	1	\$ 25	0.0	43

ENERGY STAR Refrigerator With Recycling	1	\$ 25	0.1	446
Energy Star Room AC	1	\$ 25	0.1	94
Lighting Equipment LED Lamps	60	\$ 120	0.3	2418
Lighting Equipment LED Recessed Can	4	\$ 16	0.0	208
Smart Thermostat (Electric Furnace W/ AC)	1	\$ 25	0.1	2272
<b>Residential HVAC</b>	<b>12</b>	<b>\$ 2,055</b>	<b>3.9</b>	<b>15840</b>
Central AC 15 SEER	3	\$ 750	0.9	524
Central AC/ASHP Tune-Up	1	\$ 30	0.1	74
Furnace W/ECM	5	\$ 750	1.1	3600
Heat Pump Water Heater <= 55 Gallons	2	\$ 500	1.7	11454
Programmable Thermostat (Natural Gas Boiler With/AC)	1	\$ 25	0.1	187
<b>Grand Total</b>	<b>3231</b>	<b>\$ 59,504</b>	<b>177.6</b>	<b>500811</b>

## Agenda Action Form Flandreau City Council

Meeting Date: 8/5/2019

**Title:** Payment Request No. Three (3) for Community Safe Room #2

Motion       Resolution       Ordinance       Other

**Background Information:** F.R.S. Inc., dba Solbros Construction, has submitted Payment Request No. Three (3) in the amount of \$29,494.32 for construction of Community Safe Room #2. This payment request includes general conditions, testing, cast-in-place concrete, masonry, and electrical.

**Justification:** Payment for work completed per contract; recommended by Banner Associates Inc.

**Financial Consideration:** Project is being funded with a 75% matching grant from the SD Office of Emergency Management, with the balance of funds appropriated in the City Budget.

**City Administrator's Recommendation:** Approval

**Attachments:** Contractor's Application for Payment No. Three (3)

# APPLICATION AND CERTIFICATE FOR PAYMENT

## AIA DOCUMENT G702/CMa

# CONSTRUCTION MANAGER-ADVISED EDITION

PAGE ONE OF TWO PAGES

TO OWNER:  
 City of Flandreau, South Dakota  
 1005 W. Elm Avenue  
 Flandreau SD 57028-1404  
 FROM CONTRACTOR:  
 F.R.S. Inc., DBA Solbros Construction  
 20574 Griese Place  
 Pierre, SD 57501  
 CONTRACT FOR: Flandreau Safe Room #2

PROJECT:  
 Flandreau Safe Room #2  
 210 W Prospect  
 Flandreau SD 57028

VIA ARCHITECT:  
 Banmer & Associates, Inc.  
 2307 W 57th Street, Suite 102  
 Sioux Falls SD 57108

### CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 231,000.00
2. Net change by Change Orders \$ (9,412.00)
3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 221,588.00
4. TOTAL COMPLETED & STORED TO DATE \$ 127,109.86  
(Column G on G703)
5. RETAINAGE:
  - a. 10 % of Completed Work \$ 12,009.09  
(Column D + E on G703)
  - b. 10 % of Stored Material \$ 701.90  
(Column F on G703)
6. TOTAL EARNED LESS RETAINAGE \$ 114,398.87  
(Line 4 less Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 84,404.54
8. CURRENT PAYMENT DUE \$ 29,494.32
9. BALANCE TO FINISH, INCLUDING RETAINAGE \$ 107,189.13  
(Line 3 less Line 6)

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		(\$9,412.00)
Total approved this Month		
<b>TOTALS</b>	0	0
<b>NET CHANGES by Change Order</b>	0	0

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

### CONTRACTOR:

By: [Signature] Date: 7-22-19  
 Clay Solberg (Vice President)  
 State of SOUTH DAKOTA County of: HICKS Michael D. Jones  
 Subscribed and sworn to before me this 22<sup>nd</sup> day of JULY 2019  
 Notary Public: [Signature] Michael D. Jones  
 My Commission expires: 12/10/2025  
 NOTARY PUBLIC SEAL SOUTH DAKOTA

### CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Construction Manager and Architect certify to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 29,494.32

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that changed to conform to the amount certified.)

Architect: Banmer & Associates, Inc.  
 By: [Signature] Date: 7-24-19  
 Owner: City of Flandreau, South Dakota  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

# CONTINUATION SHEET

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

2 PAGE OF PAGES

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO. 3  
 APPLICATION DATE: 7/24/2019  
 PERIOD TO: 7/31/2019  
 CONTRACT FOR: Flandreau Safe Room #2

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		E THIS PERIOD	F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)	H BALANCE TO FINISH (C - G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD					
1	MOBILIZATION	\$11,500.00	\$11,500.00	\$0.00	\$0.00	\$0.00	\$11,500.00	\$0.00	\$1,150.00
2	GENERAL CONDITIONS	\$10,100.00	\$5,031.06	\$7,026.62	\$0.00	\$0.00	\$5,793.68	\$4,306.32	\$379.37
3	SURVEYING	\$1,600.00	\$1,600.00	\$0.00	\$0.00	\$0.00	\$1,600.00	\$0.00	\$160.00
4	TESTING EARTH, CONC. & MASONRY	\$5,459.00	\$3,437.00	\$1,800.00	\$0.00	\$0.00	\$5,237.00	\$222.00	\$523.70
5	SITE CLEARING & EARTH MOVING	\$15,989.00	\$7,835.00	\$0.00	\$0.00	\$0.00	\$7,835.00	\$8,154.00	\$783.50
6	SITE CONCRETE & PAVING	\$19,812.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,812.00	\$0.00
7	TURF and GRASSES	\$3,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,500.00	\$0.00
8	SILT FENCE	\$1,625.00	\$1,625.00	\$0.00	\$0.00	\$0.00	\$1,625.00	\$0.00	\$162.50
9	CAST-IN-PLACE CONCRETE	\$35,619.00	\$4,273.00	\$11,040.00	\$0.00	\$0.00	\$30,619.00	\$5,000.00	\$3,061.90
10	CONCRETE REBAR	\$4,273.00	\$4,273.00	\$0.00	\$0.00	\$0.00	\$4,273.00	\$0.00	\$427.30
11	PRECAST STRUCT. CONCRETE	\$6,674.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,674.00	\$0.00
12	PRECAST ERECTION	\$1,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,500.00	\$0.00
13	UNIT MASONRY	\$38,500.00	\$19,526.00	\$9,556.00	\$0.00	\$0.00	\$29,082.00	\$9,418.00	\$2,908.20
14	MASONRY REBAR	\$2,692.00	\$2,692.00	\$0.00	\$0.00	\$0.00	\$2,692.00	\$0.00	\$269.20
15	METAL FABRICATIONS	\$5,250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,250.00	\$0.00
16	ROUGH CARPENTRY	\$485.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$485.00	\$0.00
17	INTERIOR ARCH WOODWORK	\$2,575.00	\$1,640.00	\$0.00	\$0.00	\$0.00	\$1,640.00	\$935.00	\$164.00
18	LABOR ARCH WOODWORK	\$1,040.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$935.00	\$0.00
19	EPDM & ROOF SPECIALTIES	\$17,771.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,771.00	\$0.00
20	JOINT SEALANTS	\$450.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$450.00	\$0.00
21	HM DOORS, FRAMES & HARDWARE	\$13,016.00	\$2,325.00	\$0.00	\$5,843.00	\$0.00	\$11,168.00	\$1,848.00	\$1,116.80
22	FIXED LOUVERS	\$2,660.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,660.00	\$0.00
23	PAINTING	\$2,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,800.00	\$0.00
24	DIVISION 10 SIGNAGE & ACCESSORIES	\$1,854.00	\$224.00	\$0.00	\$1,176.00	\$0.00	\$1,400.00	\$454.00	\$140.00
25	PORTA JOHN TOILETS	\$1,186.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,186.00	\$0.00
26	ELECTRICAL	\$10,700.00	\$0.00	\$2,245.00	\$0.00	\$0.00	\$2,245.00	\$8,455.00	\$224.50
27	BOND	\$7,750.00	\$7,750.00	\$0.00	\$0.00	\$0.00	\$7,750.00	\$0.00	\$775.00
28	EXCISE TAX	\$4,620.00	\$2,301.33	\$0.00	\$348.85	\$0.00	\$2,650.18	\$1,969.82	\$265.02
29	Change Order #1	(\$9,412.00)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$9,412.00)	\$0.00
	<b>GRAND TOTALS</b>	\$221,588.00	\$94,338.39	\$23,752.47	\$7,019.00	\$0.00	\$127,109.86	\$94,478.14	\$12,710.99

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**Agenda Action Form  
Flandreau City Council**

Meeting Date: 8/5/2019

**Title:** Pay Increase for Taylor White

Motion       Resolution       Ordinance       Other

**Background Information:** Taylor White, Flandreau Police Officer, is eligible for a six month pay step increase on the certified officer pay scale. This step increase changes his pay rate of \$18.86 per hour to a new rate of \$19.38 per hour effective September 7<sup>th</sup>, 2019, 2019.

**Justification:** Wage amount based on the Employee Wage Scale

**Financial Consideration:** Police Department salary budget

**City Administrator's Recommendation:** Approval

**Attachments:** None

## Agenda Action Form Flandreau City Council

Meeting Date: 8/5/2019

**Title:** Aquatic Center – Pay Rate Correction for Rita Parsley

Motion       Resolution       Ordinance       Other

**Background Information:** Aquatic Center Manager Michelle TenEyck requests approval of a pay rate correction for Rita Parsley. She was hired to fill in for the clerk position and as assistant manager when needed. Her rate of pay of \$8.50 per hour as fill in clerk was approved on May 20<sup>th</sup>, 2019 but her rate of pay of \$10.00 per hour when she fills in as assistant manager was not included at that time.

**Justification:** Wage amount is based on the Seasonal Employee Wage Scale

**Financial Consideration:** Aquatic Center salary budget

**City Administrator's Recommendation:** Approval

**Attachments:** None