



OFFICIAL NOTICE AND AGENDA

Notice is hereby given that the City of Stoughton Utilities Committee will hold a regular meeting on the date and at the time and location given below.

Meeting of: **CITY OF STOUGHTON UTILITIES COMMITTEE**
Date/Time: Monday, April 17, 2017 at 5:30 p.m.
Location: Edmund T. Malinowski Board Room, Stoughton Utilities Administration Office
600 South Fourth Street, Stoughton, Wisconsin
Members: Mayor Donna Olson (Chair), Alderperson Greg Jenson (Vice-Chair), Alderperson Matt Bartlett, Alderperson Michael Engelberger, Citizen Member David Erdman, Citizen Member John Kallas, Citizen Member Alan Staats

AGENDA:

CALL TO ORDER

CONSENT AGENDA

(All items are considered routine and will be enacted upon by one motion. There will be no separate discussion of these items unless a Stoughton Utilities Committee member so requests, in which event the item will be removed from the consent agenda and be considered on the regular agenda.)

- a. Stoughton Utilities Payments Due List Report
- b. Draft Minutes of the March 20, 2017 Regular Stoughton Utilities Committee Meeting
- c. Stoughton Utilities February 2017 Financial Summary
- d. Stoughton Utilities March 2017 Statistical Information
- e. Stoughton Utilities Communications
- f. Stoughton Utilities Committee Annual Calendar
- g. Stoughton Utilities March 2017 Activities Report

OLD BUSINESS

1. Status of the Stoughton Utilities Committee recommendation(s) to the Stoughton Common Council **(Discussion)**
2. Utility Billing Statement Messages and Inserts Policy **(Action)**

NEW BUSINESS

3. Invitation to attend an orientation to WPPI Energy **(Discussion)**
4. Stoughton Electric Utility Annual Report filed with the Public Service Commission of Wisconsin (WPSC) **(Discussion)**
5. Stoughton Water Utility Annual Report filed with the Public Service Commission of Wisconsin (WPSC) **(Discussion)**
6. Stoughton Utilities goals status report **(Discussion)**
7. 2017 Water and Sanitary Sewer Replacement Project **(Action)**
8. Stoughton Utilities Committee future agenda item(s) **(Discussion)**

ADJOURNMENT

Notices Sent To:

Stoughton Utilities Committee Members
Stoughton Utilities Director Robert P. Kardasz, P.E.
Stoughton Utilities Assistant Director Brian Hoops
Stoughton Utilities Finance Manager Jamin Friedl, CPA

cc: Stoughton City Attorney Matthew Dregne
Stoughton City Clerk Lana Kropf
Stoughton Common Council Members
Stoughton Leadership Team
Stoughton Utilities Operations Superintendent Sean Grady
Stoughton Utilities Wastewater System Supervisor Brian Erickson
Unified Newspaper Group - Stoughton Courier Hub

ATTENTION COMMITTEE MEMBERS: Two-thirds of members are needed for a quorum. The committee may only conduct business when a quorum is present. If you are unable to attend the meeting, please contact Robert Kardasz or Brian Hoops via telephone at (608) 877-7423 or (608) 877-7412 respectively, or via email at RKardasz@stoughtonutilities.com or BHoops@stoughtonutilities.com.

It is possible that members of, and possibly a quorum of members of other committees of the Common Council of the City of Stoughton may be in attendance at this meeting to gather information. No action will be taken by any such group(s) at this meeting other than the Stoughton Utilities Committee consisting of the members listed above. An expanded meeting may constitute a quorum of the Common Council.

Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For information or to request such assistance, please contact Stoughton Utilities at (608) 873-3379.

Current and past Stoughton Utilities Committee documents, including meeting notices, meeting packets, and meeting minutes, are available for public download at <http://stoughtonutilities.com/uc>.

Date: Monday, April 03, 2017
 Time: 03:22PM
 User: SGUNSOLUS

Stoughton Utilities
Check Register Summary - Standard

Page: 1 of 6
 Report: 03699W.rpt
 Company: 7430

Period: - As of: 4/3/2017

Check Nbr	Type	Date	Amount Paid	Vendor ID / Name	Description
Company: 7430					
001386	EP	3/8/2017	33,371.17	516 WELLS FARGO BANK	VO for check batch: 307467
001387	HC	3/31/2017	15,938.54	010 WI Dept. of Revenue Taxpayment-Ach	Dept of Rev-Mar Ach/Dept of Rev-Mar Ach
001388	HC	3/31/2017	38,579.48	025 Payroll Federal Taxes- Ach	Fed Taxes-Mar Ach/Fed Taxes-Mar Ach/Fed Taxes-Mar Ach/Fed Taxes-Mar Ach
001389	HC	3/31/2017	7,214.96	008 Payroll State Taxes - Ach	State Taxes-Mar Ach/State Taxes-Mar Ach
001390	HC	3/31/2017	827,907.62	009 WPPI	WPPI-Renewable Energy/WPPI-Buy Back Solar Credit/WPPI-Shared Savings/WPPI-Large Power/WPPI-Support Services/WPPI-Support Services/WPPI-Support Services
001391	HC	3/31/2017	415.61	547 Charter Communications-Ach	Charter-Mar Ach/Charter-Mar Ach/Charter-Mar Ach/Charter-Mar Ach
001392	HC	3/31/2017	30.52	421 FIRST DATA CHARGES	First Data-Mar Ach/First Data-Mar Ach/First Data-Mar Ach/First Data-Mar Ach
001393	HC	3/31/2017	171.38	952 AT&T	AT&T - Mar Ach/AT&T - Mar Ach/AT&T - Mar Ach
001394	HC	3/31/2017	1,140.87	003 Alliant Energy - Ach	Alliant Energy - Mar Ach/Alliant Energy - Mar Ach/Alliant Energy - Mar Ach/Alliant Energy - Mar Ach/Alliant Energy - Mar Ach/Alliant Energy - Mar Ach
001395	HC	3/31/2017	166.34	856 GORDON FLESCH COMPANY, INC.	Gordon Flesch-Mar Ach/Gordon Flesch-Mar Ach/Gordon Flesch-Mar Ach/Gordon Flesch-Mar Ach
001396	HC	3/31/2017	2,010.04	001 Delta Dental - Ach	Delta Dental - Mar Ach/Delta Dental - Mar Ach/Delta Dental - Mar Ach
001397	HC	3/31/2017	473.72	007 TDS Metrocom - Ach	TDS Metrocom - Mar Ach/TDS Metrocom - Mar Ach/TDS Metrocom - Mar Ach/TDS Metrocom - Mar Ach
001398	HC	3/31/2017	1,109.44	002 Employee Benefits Corp - Ach	EBC - Mar Ach/EBC - Mar Ach/EBC - Mar Ach/EBC - Mar Ach
001399	HC	3/31/2017	5,926.23	020 Wells Fargo Bank-Ach	Client Analysis-Mar Ach/Client Analysis-Mar Ach/Client Analysis-Mar Ach/Client Analysis-Mar Ach

Date: Monday, April 03, 2017
 Time: 03:22PM
 User: SGUNSOLUS

Stoughton Utilities
Check Register Summary - Standard

Page: 2 of 6
 Report: 03699W.rpt
 Company: 7430

Period: - As of: 4/3/2017

Check Nbr	Type	Date	Amount Paid	Vendor ID / Name	Description
024623	VC	3/1/2017	-75.00	917 ARBOR DAY FOUNDATION	Arbor Day-Tree Line 16
024807	VC	3/15/2017	0.00	318 PITNEY-BOWES INC	Pitney Bowes-Postage/Pitney Bowes-Postage/Pitney Bowes-Postage/Pitney Bowes-Postage/Pitney Bowes-Postage
024808	CK	3/1/2017	928.25	448 STRAND ASSOCIATES INC.	Strand-Nordic Ridge
024809	CK	3/1/2017	31.59	583 RONALD FOUTS	R Fouts-Customer Refund
024810	CK	3/1/2017	229.83	589 PET RELIEF	Pet Relief-Customer Refund
024811	CK	3/1/2017	20.00	756 ID-ACCESS	IdAccess-Id Tags
024812	CK	3/1/2017	452.78	903 FIRST IMPRESSIONS	First Impressions-Cust Ref
024813	CK	3/1/2017	3,583.77	364 TYCO INTEGRATED SECURITY LLC	Tyco-Nordic ridge
024814	CK	3/1/2017	741.51	400 RESCO	Resco-Inventory/Resco-Supplies
024815	CK	3/1/2017	15,980.82	539 DEPARTMENT OF ADMINISTRATION	Dept of Admin-Pub Ben Fees
024816	CK	3/1/2017	20,000.00	811 ENERGY PERFORMANCE LIGHTING	Energy perf.-Lighting
024817	CK	3/1/2017	45.00	956 WI DNR	WI DNR-ww Certification
024818	CK	3/1/2017	275.61	200 EUGENE SCHLACHTER & JOHN GEER	E Schlachter-Cust Refund
024819	CK	3/1/2017	146.33	478 JOSIE SHELTON	J Shelton-Customer Refund
024820	CK	3/1/2017	27.16	664 REBECCA MARSELLE	R Marselle-Customer Refund
024821	CK	3/1/2017	114.59	804 RON & SANDY LARSEN	R Larsen-Customer Refund
024822	CK	3/1/2017	45.00	956 WI DNR	WI DNR-WW Certification
024823	CK	3/1/2017	75.00	917 ARBOR DAY FOUNDATION	Arbor Day-Tree Line 16
024824	CK	3/8/2017	1,391.06	313 MUNICIPAL ENVIRONMENTAL GROUP	Muni Env Grp-Member Dues

Date: Monday, April 03, 2017
 Time: 03:22PM
 User: SGUNSOLUS

Stoughton Utilities
Check Register Summary - Standard

Page: 3 of 6
 Report: 03699W.rpt
 Company: 7430

Period: - As of: 4/3/2017

Check Nbr	Type	Date	Amount Paid	Vendor ID / Name	Description
024825	CK	3/8/2017	24,887.16	448 STRAND ASSOCIATES INC.	Strand-West Substation/Strand-Discharge Treatment/Strand-Sewer ordinance/Strand-17 Utility const/Strand-van buren wa-ww/Strand-van buren wa-ww/Strand-17 Utility const
024826	CK	3/8/2017	4,464.84	852 INFOSEND, INC	Infosend-Billing & Mailing/Infosend-Billing & Mailing/Infosend-Billing & Mailing/Infosend-Billing & Mailing
024827	CK	3/8/2017	30.29	400 RESCO	Resco-Supplies
024828	CK	3/8/2017	92.93	474 WOODWARD COMMUNITY MEDIA	Woodward-Ads/Woodward-Ads
024829	CK	3/8/2017	412.00	542 R'ORIGINAL PAINTING AND DECORATING	R Original-bldg painting/R Original-bldg painting/R Original-bldg painting
024830	CK	3/8/2017	2.24	640 ROCK COUNTY SHERIFF'S OFFICE	Rock Cnty-Case copy
024831	CK	3/8/2017	4,811.24	781 DUNKIRK WATER POWER CO LLC	Dunkirk-Feb Dunkirk
024832	CK	3/8/2017	1,371.00	084 HARVEST FARMS, LLC	Harvest Farms-Reimb
024833	CK	3/8/2017	176.77	133 WISCONSIN SCTF	WI SCTF-Mar A Support
024834	CK	3/8/2017	4,985.50	362 UTILITY SERVICE CO., INC	Utility Svcs-Qtr tower
024835	CK	3/14/2017	9,248.81	131 CITY OF STOUGHTON	City Stoton-Jan Life Ins/City Stoton-Jan Life Ins/City Stoton-Jan Life Ins/CityStoton-Feb Life Ins/City Stoton-Feb Life Ins/City Stoton-Feb Life Ins/City Stoton-Mar Life Ins/City Stoton-March Life Ins/City Stoton-March Life Ins/City Stoton-Mar Life Ins+
024836	CK	3/15/2017	3,535.00	318 PITNEY-BOWES INC	Pitney Bowes-Postage/Pitney Bowes-Postage/Pitney Bowes-Postage/Pitney Bowes-Postage
024837	CK	3/15/2017	30.48	108 ASLESON'S TRUE VALUE	Aslesons-Well 4
024838	CK	3/15/2017	512.00	166 INKWORKS, INC.	Inkworks-Office supplies/Inkworks-Office supplies/Inkworks-Office supplies/Inkworks-Office supplies
024839	CK	3/15/2017	1,426.87	226 EMMONS BUSINESS INTERIORS, LLC	Emmons-Chairs/Emmons-Chairs/Emmons-Chairs
024840	CK	3/15/2017	16,483.00	400 RESCO	Resco-Transformers/Resco-Transformers

Date: Monday, April 03, 2017
 Time: 03:22PM
 User: SGUNSOLUS

Stoughton Utilities
Check Register Summary - Standard

Page: 4 of 6
 Report: 03699W.rpt
 Company: 7430

Period: - As of: 4/3/2017

Check Nbr	Type	Date	Amount Paid	Vendor ID / Name	Description
024841	CK	3/15/2017	4,817.37	451 INSIGHT FS	Insight-Fuel/Insight-Fuel/Insight-Fuel
024842	CK	3/15/2017	25.00	675 WI STATE LABORATORY OF HYGIENE	Lab of Hygiene-Fluoride tests
024843	CK	3/15/2017	342.50	290 MID-WEST TREE & EXCAVATION, INC	Midwest-Trenching
024844	CK	3/15/2017	12.08	337 JOHNATHAN BENNETT	J Bennett-Customer Refund
024845	CK	3/15/2017	61.75	358 KUNZ GLOVE CO., INC.	Kunz-Gloves
024846	CK	3/15/2017	137.35	787 CHARA KESSLER	C Kessler-Customer Refund
024847	CK	3/15/2017	92.34	820 MATSON CUSTOM HOMES	Matson-Customer Refund
024848	CK	3/15/2017	171.90	858 MICHAEL & JESSICA MAROSE	M Marose-Customer Refund
024849	CK	3/22/2017	40.00	405 ROSENBAUM CRUSHING & EXCAV.	Rosenbaum-dump fee
024850	CK	3/22/2017	1,045.00	727 GLS UTILITY LLC	GLS Utility-Feb Locates/GLS Utility-Feb Locates/GLS Utility-Feb Locates
024851	CK	3/22/2017	965.00	290 MID-WEST TREE & EXCAVATION, INC	Midwest-Trenching/Midwest-Trenching/Midwest-Trenching/Midwest-Trenching
024852	CK	3/22/2017	57.00	584 VINING SPARKS IBG, L.P.	Vining Sparks-Safekeeping
024853	CK	3/22/2017	50.93	607 WARREN LA DUKE	W Laduke-Customer Refund
024854	CK	3/22/2017	115.61	709 ANDREW BRANTMEYER	A Brantmeyer-Customer Refund/A Brantmeyer-Customer Refund/A Brantmeyer-Customer Refund/A Brantmeyer-Customer Refund
024855	CK	3/22/2017	50.00	956 WI DNR	WI DNR-WW Exam
024856	CK	3/22/2017	19,127.86	131 CITY OF STOUGHTON	City Stoton-March Retirement/City Stoton-March Retirement/City Stoton-March Retirement
024857	CK	3/22/2017	176.77	133 WISCONSIN SCTF	WI SCTF-Mar B Support
024858	CK	3/22/2017	68,252.63	131 CITY OF STOUGHTON	City Stoton-March Stormwater
024859	CK	3/22/2017	363.00	171 ASSOCIATED TRUST COMPANY	Assoc Trust-Elec rev bonds

Date: Monday, April 03, 2017
 Time: 03:22PM
 User: SGUNSOLUS

Stoughton Utilities
Check Register Summary - Standard

Page: 5 of 6
 Report: 03699W.rpt
 Company: 7430

Period: - As of: 4/3/2017

Check Nbr	Type	Date	Amount Paid	Vendor ID / Name	Description
024860	CK	3/22/2017	1,086.00	746 ELSTER SOLUTIONS, LLC	Elster-metering/Elster-metering
024861	CK	3/30/2017	3,320.50	090 SOLENIS LLC	Solenis-Customer Refund
024862	CK	3/30/2017	343.60	222 TRAVIS & PAULA HANLEY	T Hanley-Customer Refund
024863	CK	3/30/2017	53.48	238 RALPH KENYON	R Kenyon-Customer Refund
024864	CK	3/30/2017	96.00	399 GREG GOLDBACH	G Goldbach-Customer Refund
024865	CK	3/30/2017	141.37	785 MID-STATE TECHNICAL COLLEGE	Mid State-School Fees
024866	CK	3/30/2017	180.00	318 PITNEY-BOWES INC	Pitney Bowes-Supplies/Pitney Bowes-Supplies/Pitney Bowes-Supplies
101418	CK	3/8/2017	40.00	176 SCOTT GUNSOLUS	S Gunsolus-CDL Reimb
101419	CK	3/8/2017	80.00	181 BRIAN HOOPS	B Hoops-Reimb
101420	CK	3/8/2017	2,600.00	463 GREAT-WEST	Great West-Mar A Def Comp
101421	CK	3/8/2017	84.00	499 ROBERT KARDASZ	R Kardasz-Reimb/R Kardasz-Reimb
101422	CK	3/8/2017	1,885.00	648 BAKER TILLY VIRCHOW KRAUSE, LLP	BakerTilly-Audit/BakerTilly-Audit/BakerTilly-Audit
101423	CK	3/8/2017	375.00	731 NORTH SHORE BANK FSB	N Shore Bank-Mar A Def comp
101424	CK	3/8/2017	571.99	809 CINTAS CORPORATION #446	Cintas-Clothes cleaning/Cintas-Clothes cleaning/Cintas-Bldg Cleaning/Cintas-Bldg Cleaning/Cintas-Clothes cleaning/Cintas-Clothes cleaning/Cintas-Clothes cleaning/Cintas-Clothes cleaning/Cintas-Bldg Cleaning
101425	CK	3/22/2017	19,588.75	157 FORSTER ELEC. ENG.,INC.	Forster-West Sub
101426	CK	3/22/2017	44.00	310 HANSON PEST MANAGEMENT	Hanson-Pest Maint.
101427	CK	3/22/2017	2,800.00	463 GREAT-WEST	Great West-Mar B Def Comp
101428	CK	3/22/2017	5,244.44	603 SEERA	Seera-CTC funds
101429	CK	3/22/2017	375.00	731 NORTH SHORE BANK FSB	N Shore Bank-Mar B Def comp

Date: Monday, April 03, 2017
Time: 03:22PM
User: SGUNSOLUS

Stoughton Utilities
Check Register Summary - Standard

Page: 6 of 6
Report: 03699W.rpt
Company: 7430

Period: - As of: 4/3/2017

Check Nbr	Type	Date	Amount Paid	Vendor ID / Name	Description
101430	CK	3/22/2017	33.75	732 BROOK JOHNSON	B Johnson-Solar Credit
101431	CK	3/22/2017	411.84	809 CINTAS CORPORATION #446	Cintas-Cloths cleaning/Cintas-shipping/Cintas-Clothes cleaning/Cintas-Clothes cleaning/Cintas-Cloths cleaning/Cintas-Cloths cleaning/Cintas-Clothes cleaning
101432	CK	3/23/2017	152.00	859 ANDREW RUDER	A Ruder-Meal Expense
101433	CK	3/23/2017	152.00	880 STEVE HARTMAN	S Hartman-Meal Expense
101434	CK	3/31/2017	190.00	525 TYLER HARDING	T Harding-School Meal exp
101435	CK	3/31/2017	152.00	602 CORY HESTEKIN	C Hestekin-School Meal exp
Company Total			1,186,844.16		

Date: Wednesday, March 08, 2017

Time: 01:40PM

User: SGUNSOLUS

Stoughton Utilities Posting Preview Report

Select By: {PSSPurchCard.RefNbr} = '0000000070'

Company	Account	Sub	Vendor ID	Merchant	Amount	Description	Post Date	Emp ID	Projec
Import ID: 009010		Import # : 0000000070							
7430	932	000000	595	1000BULBS.COM	79.93	T12 lampholders	02/09/2017	4100	-
7430	920	000000	894	62023 - MONONA TERRACE	12.00	TRAINING EXPENSE - PARKING - WI UTILITY PROVIDERS CONFERENCE	02/02/2017	5250	-
7450	933	000000	626	663 STOUGHTON BUMPER TO B	10.29	Fuel pump relay for Trk No. 6	02/23/2017	8700	-
7460	827	000000	626	663 STOUGHTON BUMPER TO B	1.15	supplies	02/17/2017	8720	-
7460	827	000000	626	663 STOUGHTON BUMPER TO B	7.50	supplies	02/20/2017	8720	-
7430	932	000000	626	663 STOUGHTON BUMPER TO B	7.69	Replacement belts for large truck room exhaust system	02/09/2017	6910	-
7430	933	000000	626	663 STOUGHTON BUMPER TO B	32.73	Main supplies	02/09/2017	6960	-
7430	593	000000	626	663 STOUGHTON BUMPER TO B	8.97	Spark plugs for chain saws	02/14/2017	6960	-
7430	925	000000	281	AMARIL UNIFORM COMPANY #1	45.00	Reflective tape for winter ware	02/14/2017	4000	-
7450	626	000000	994	AMAZON MKTPLACE PMTS	174.94	Concrete saw blades	02/09/2017	4100	-
7430	933	000000	994	AMAZON MKTPLACE PMTS	120.95	graphite slip grip for trucks	02/09/2017	4100	-
7460	833	000000	422	AMAZON.COM	14.28	supplies	02/27/2017	8200	-
7430	920	000000	894	AMERICAN AIR0010274350041	25.00	TRAINING EXPENSE - BAGGAGE - APPA LEGISLATIVE CONFERENCE	02/28/2017	1000	-
7450	631	000000	108	ASLESON'S TRUE VALUE HDW	11.28	Plumbing repair parts for Well No. 5	02/16/2017	8700	-
7450	626	000000	108	ASLESON'S TRUE VALUE HDW	4.58	keys	02/21/2017	8700	-
7450	631	000000	108	ASLESON'S TRUE VALUE HDW	9.98	quick crete for floor repairs at Well No. 5	02/21/2017	8700	-
7450	631	000000	108	ASLESON'S TRUE VALUE HDW	8.00	guard material for pump a Well No. 5	02/23/2017	8700	-
7460	833	000000	108	ASLESON'S TRUE VALUE HDW	28.06	supplies	02/21/2017	8720	-
7450	633	000000	108	ASLESON'S TRUE VALUE HDW	25.55	Air pressure guage	02/02/2017	7400	-
7450	631	000000	108	ASLESON'S TRUE VALUE HDW	4.29	Paint tray	02/10/2017	7400	-
7450	614	000000	108	ASLESON'S TRUE VALUE HDW	2.29	Replacement bulb at Well No 4	02/20/2017	7400	-
7450	631	000000	108	ASLESON'S TRUE VALUE HDW	4.29	Pain roller for Well No. 5	02/22/2017	7400	-
7450	614	000000	108	ASLESON'S TRUE VALUE HDW	1.29	Fitting for air gap at Well No. 5	02/24/2017	7400	-
7430	597	000000	108	ASLESON'S TRUE VALUE HDW	2.98	Metering	02/03/2017	5200	-
7460	833	000000	108	ASLESON'S TRUE VALUE HDW	11.98	supplies	02/14/2017	8200	-
7460	833	000000	108	ASLESON'S TRUE VALUE HDW	13.84	supplies	02/15/2017	8200	-
7460	833	000000	108	ASLESON'S TRUE VALUE HDW	13.18	supplies	02/16/2017	8200	-
7460	833	000000	108	ASLESON'S TRUE VALUE HDW	25.33	supplies	02/17/2017	8200	-
7430	596	000000	108	ASLESON'S TRUE VALUE HDW	8.49	Photo eye for 51Kingslynn Public Works Repair	02/03/2017	6960	-
7460	852	000000	390	BADGER WATER	25.85	Water main repair clamps	02/01/2017	8300	-
7430	597	000000	894	BAYMONT INN	335.96	Meter School	02/08/2017	5275	-
7430	593	000000	327	BORDER STATES ELECTRIC	-258.24	Wrong size belt	02/22/2017	4100	-
7430	370	003300	327	BORDER STATES ELECTRIC	359.00	New electric meters	02/20/2017	4100	-
7430	921	000000	604	CDW GOVERNMENT	37.82	iPad covers- JFriedl, BHoops	02/08/2017	5250	-
7450	921	000000	604	CDW GOVERNMENT	13.75	iPad covers- JFriedl, BHoops	02/08/2017	5250	-
7460	851	000000	604	CDW GOVERNMENT	17.21	iPad covers- JFriedl, BHoops	02/08/2017	5250	-
7430	921	000000	604	CDW GOVERNMENT	605.00	Email security gateway hardware refresh	02/10/2017	5250	-
7450	921	000000	604	CDW GOVERNMENT	220.00	Email security gateway hardware refresh	02/10/2017	5250	-
7460	851	000000	604	CDW GOVERNMENT	275.00	Email security gateway hardware refresh	02/10/2017	5250	-
7430	921	000000	604	CDW GOVT #GXL3031	797.50	WEB SECURITY GATEWAY HARDWARE REFRESH, UPGRADE	02/22/2017	5250	-
7450	921	000000	604	CDW GOVT #GXL3031	290.00	WEB SECURITY GATEWAY HARDWARE REFRESH, UPGRADE	02/22/2017	5250	-
7460	851	000000	604	CDW GOVT #GXL3031	362.50	WEB SECURITY GATEWAY HARDWARE REFRESH, UPGRADE	02/22/2017	5250	-

Date: Wednesday, March 08, 2017

Time: 01:40PM

User: SGUNSOLUS

Stoughton Utilities Posting Preview Report

Select By: {PSSPurchCard.RefNbr} = '0000000070'

Company	Account	Sub	Vendor ID	Merchant	Amount	Description	Post Date	Emp ID	Projec
7450	631	000000	994	CHR CHRISTIANBOOK.COM	6.32	SUPPLIES	02/07/2017	8400	-
7430	920	000000	894	CHULA VISTA RESORT	45.10	Training expense - Lodging - WLIA Annual conference	02/24/2017	4300	-
7450	920	000000	894	CHULA VISTA RESORT	16.40	Training expense - Lodging - WLIA Annual conference	02/24/2017	4300	-
7460	850	000000	894	CHULA VISTA RESORT	20.50	Training expense - Lodging - WLIA Annual conference	02/24/2017	4300	-
7430	593	000000	894	CITY OF EAU CLAIRE	0.50	School parking	02/01/2017	6940	-
7430	593	000000	894	CITY OF EAU CLAIRE	6.50	school parking	02/01/2017	6940	-
7430	593	000000	894	CITY OF EAU CLAIRE	0.50	School parking	02/02/2017	6940	-
7430	593	000000	894	CITY OF EAU CLAIRE	6.00	School parking	02/02/2017	6940	-
7430	593	000000	894	CITY OF EAU CLAIRE	0.50	Parking school	02/03/2017	6940	-
7430	593	000000	894	CITY OF EAU CLAIRE	0.50	School parking	02/03/2017	6940	-
7430	593	000000	894	CITY OF EAU CLAIRE	6.00	School parking	02/03/2017	6940	-
7430	920	000000	894	CITY OF EAU CLAIRE	6.00	Parking	02/06/2017	6940	-
7460	832	000000	855	CRANE ENGINEERING SALES F	2,616.57	supplies	02/01/2017	8200	-
7430	232	001099	484	CREE LIGHTING	3,500.00	LED street light fixtures	02/24/2017	4100	-
7450	652	000000	135	CTW CORPORATE	108.75	Chemical feed line hose and parts	02/02/2017	8400	-
7450	652	000000	135	CTW CORPORATE	264.00	Chemical injectors for wells	02/02/2017	8400	-
7430	933	000000	754	EXXONMOBIL 96137872	18.07	FUEL FOR CAR	02/03/2017	6940	-
7460	833	000000	148	FASTENAL COMPANY01	184.76	supplies	02/21/2017	8200	-
7460	833	000000	148	FASTENAL COMPANY01	73.84	supplies	02/28/2017	8200	-
7460	833	000000	148	FASTENAL COMPANY01	8.47	supplies	02/15/2017	8720	-
7450	631	000000	148	FASTENAL COMPANY01	2.45	Paint Brushes	02/10/2017	8700	-
7430	593	000000	148	FASTENAL COMPANY01	126.89	Pipe for hot-arm cart	02/21/2017	8700	-
7450	631	000000	148	FASTENAL COMPANY01	40.86	Paint rollers for Well No. 5	02/07/2017	7400	-
7460	833	000000	148	FASTENAL COMPANY01	16.80	supplies	02/17/2017	8720	-
7430	593	000000	148	FASTENAL COMPANY01	3.00	supplies	02/03/2017	5200	-
7460	833	000000	306	FILTER BELTS -ME	542.09	supplies	02/09/2017	8200	-
7430	920	000000	601	FOSDAL BAKERY LLC	4.95	Meeting expense - Utilities Committee	02/22/2017	3680	-
7450	920	000000	601	FOSDAL BAKERY LLC	1.80	Meeting expense - Utilities Committee	02/22/2017	3680	-
7460	850	000000	601	FOSDAL BAKERY LLC	2.25	Meeting expense - Utilities Committee	02/22/2017	3680	-
7430	594	000000	601	FOSDAL BAKERY LLC	31.00	Safety School	02/16/2017	6950	-
7430	932	000000	900	GENERAL HEATING AND AC	564.30	BUILDING MAINT	02/27/2017	4000	-
7450	932	000000	900	GENERAL HEATING AND AC	205.20	BUILDING MAINT.	02/27/2017	4000	-
7460	834	000000	900	GENERAL HEATING AND AC	256.50	BUILDING MAINT	02/27/2017	4000	-
7450	641	000000	309	HAWKINS INC	1,341.44	Chemicals for wells	02/13/2017	4000	-
7450	232	001099	492	HD SUPPLY WATERWORKS 233	249.00	Water main repair clamps	02/08/2017	4100	-
7450	677	000000	354	HYDRO DESIGNS	1,000.00	CROSS CONNECTION INSPECTION SERVICE	02/28/2017	4000	-
7460	833	000000	083	IN ENVIROTECH EQUIPMENT	971.76	supplies	02/07/2017	8200	-
7430	932	000000	322	IN SUNDANCE BIOCLEAN, IN	137.50	maint of plant	02/16/2017	4000	-
7450	932	000000	322	IN SUNDANCE BIOCLEAN, IN	50.00	Maint of plant	02/16/2017	4000	-
7460	834	000000	322	IN SUNDANCE BIOCLEAN, IN	62.50	Maint of plant	02/16/2017	4000	-
7430	932	000000	994	KWIK TRIP 73900007393	14.26	Chain saw fuel	02/09/2017	6960	-
7460	832	000000	207	LW ALLEN	825.00	supplies	02/01/2017	8200	-
7460	834	000000	207	LW ALLEN	876.00	supplies	02/01/2017	8200	-
7430	163	000000	447	LYON LLC	2,238.48	MATERIAL STORAGE SHELVES	02/28/2017	4000	-

Date: Wednesday, March 08, 2017

Time: 01:40PM

User: SGUNSOLUS

Stoughton Utilities Posting Preview Report

Select By: {PSSPurchCard.RefNbr} = '0000000070'

Company	Account	Sub	Vendor ID	Merchant	Amount	Description	Post Date	Emp ID	Projec
7430	933	000000	994	M & J TRUCK & AUTO REP	191.36	ABS repair on Trk No. 12	02/08/2017	4000	-
7460	833	000000	994	MAGID GLOVE SAFETY	172.00	SUPPLIES	02/10/2017	8200	-
7460	833	000000	253	MARSHALL BOND PUMPS	2,041.87	supplies	02/13/2017	8200	-
7460	833	000000	253	MARSHALL BOND PUMPS	255.35	supplies	02/27/2017	8200	-
7430	921	000000	836	MSFT E04003AS2K	56.00	LICENSING - HOSTED MS LYNC - MONTHLY	02/13/2017	5250	-
7430	920	000000	089	MUNICIPAL ELECTRIC UTILIT	75.00	Training expense - Registration - MEUW Collection Seminar	02/10/2017	3670	-
7450	920	000000	089	MUNICIPAL ELECTRIC UTILIT	27.00	Training expense - Registration - MEUW Collection Seminar	02/10/2017	3670	-
7460	850	000000	089	MUNICIPAL ELECTRIC UTILIT	36.00	Training expense - Registration - MEUW Collection Seminar	02/10/2017	3670	-
7430	233	001099	089	MUNICIPAL ELECTRIC UTILIT	12.00	Training expense - Registration - MEUW Collection Seminar	02/10/2017	3670	-
7430	925	000000	786	NAPA PARTS - SNP 0027410	94.80	Safety supplies	02/14/2017	4100	-
7430	232	001099	720	NEHER ELECTRIC SUPPLY INC	537.00	Street light bulbs	02/08/2017	4100	-
7460	834	000000	974	NORTHERN LAKE SERVICE, IN	32.00	supplies	02/13/2017	8300	-
7460	827	000000	974	NORTHERN LAKE SERVICE, IN	32.00	supplies	02/23/2017	8300	-
7430	933	000000	140	OREILLY AUTO 00050369	7.99	Vehicle Wash	02/08/2017	6960	-
7430	903	000000	419	PAYFLOW/PAYPAL	48.42	CC Processing - Online Epay	02/03/2017	5250	-
7450	903	000000	419	PAYFLOW/PAYPAL	17.43	CC Processing - Online Epay	02/03/2017	5250	-
7460	840	000000	419	PAYFLOW/PAYPAL	23.24	CC Processing - Online Epay	02/03/2017	5250	-
7430	233	001099	419	PAYFLOW/PAYPAL	7.76	CC Processing - Online Epay	02/03/2017	5250	-
7430	903	000000	419	PAYFLOW/PAYPAL	29.97	CC Processing - Desktop and recurring	02/03/2017	5250	-
7450	903	000000	419	PAYFLOW/PAYPAL	10.79	CC Processing - Desktop and recurring	02/03/2017	5250	-
7460	840	000000	419	PAYFLOW/PAYPAL	14.38	CC Processing - Desktop and recurring	02/03/2017	5250	-
7430	233	001099	419	PAYFLOW/PAYPAL	4.81	CC Processing - Desktop and recurring	02/03/2017	5250	-
7450	678	000000	969	PAYPAL AAABRASIVES	117.56	BLADES FOR CHOP SAW	02/09/2017	4100	-
7430	932	000000	347	PAYPAL BATTERYMART	70.33	Battery packs for emergency lighting	02/09/2017	4100	-
7430	920	000000	969	PAYPAL PRESTIGEPAP	94.50	RP3 Award Plaque	02/02/2017	3650	-
7450	633	000000	969	PAYPAL TWP WIREMES	112.71	MESH FOR VENTS USED AT TOWERS AND WELLS	02/09/2017	4100	-
7460	833	000000	229	SAFETY FIRST	881.02	supplies	02/24/2017	8200	-
7450	631	000000	748	SHERWIN WILLIAMS #1476	468.70	Floor paint for Well No. 5	02/16/2017	8400	-
7450	614	000000	748	SHERWIN WILLIAMS #1476	234.32	Pipe paint for Well No. 5	02/16/2017	8400	-
7450	631	000000	748	SHERWIN WILLIAMS 703833	1,153.20	Floor and wall paint for Well No. 5	02/24/2017	8400	-
7450	631	000000	748	SHERWIN WILLIAMS 703833	22.39	Floor flakes for Well No. 5	02/28/2017	8400	-
7460	834	000000	748	SHERWIN WILLIAMS 703833	252.97	paint	02/09/2017	8200	-
7460	827	000000	937	SPEE-DEE DELIVERY	19.83	delivery	02/20/2017	8300	-
7460	827	000000	937	SPEE-DEE DELIVERY	12.67	delivery	02/06/2017	8300	-
7430	143	000000	352	STAPLS7170055435001001	-26.61	REFUND - GENERAL OFFICE SUPPLIES	02/06/2017	3680	-
7430	921	000000	352	STAPLS7170339281000001	34.94	GENERAL JANITORIAL SUPPLIES	02/01/2017	3680	-
7450	921	000000	352	STAPLS7170339281000001	12.70	GENERAL JANITORIAL SUPPLIES	02/01/2017	3680	-
7460	851	000000	352	STAPLS7170339281000001	15.90	GENERAL JANITORIAL SUPPLIES	02/01/2017	3680	-
7430	921	000000	352	STAPLS7171072183000001	41.01	GENERAL JANITORIAL SUPPLIES	02/13/2017	3680	-
7450	921	000000	352	STAPLS7171072183000001	14.91	GENERAL JANITORIAL SUPPLIES	02/13/2017	3680	-
7460	851	000000	352	STAPLS7171072183000001	18.66	GENERAL JANITORIAL SUPPLIES	02/13/2017	3680	-
7430	921	000000	352	STAPLS7171441861000001	16.22	GENERAL OFFICE SUPPLIES	02/20/2017	3680	-
7450	921	000000	352	STAPLS7171441861000001	5.84	GENERAL OFFICE SUPPLIES	02/20/2017	3680	-
7460	851	000000	352	STAPLS7171441861000001	7.78	GENERAL OFFICE SUPPLIES	02/20/2017	3680	-

Date: Wednesday, March 08, 2017

Time: 01:40PM

User: SGUNSOLUS

Stoughton Utilities Posting Preview Report

Select By: {PSSPurchCard.RefNbr} = '0000000070'

Company	Account	Sub	Vendor ID	Merchant	Amount	Description	Post Date	Emp ID	Projec
7430	233	001099	352	STAPLS7171441861000001	2.61	GENERAL OFFICE SUPPLIES	02/20/2017	3680	-
7430	921	000000	352	STAPLS7171441861000002	3.34	GENERAL OFFICE SUPPLIES	02/27/2017	3680	-
7450	921	000000	352	STAPLS7171441861000002	1.21	GENERAL OFFICE SUPPLIES	02/27/2017	3680	-
7460	851	000000	352	STAPLS7171441861000002	1.54	GENERAL OFFICE SUPPLIES	02/27/2017	3680	-
7430	933	000000	616	STARK BUICK GMC INC	464.90	Air bag sensor replacement on dump truck	02/08/2017	5200	-
7460	833	000000	436	STOUGHTON LUMBER CO	7.99	supplies	02/10/2017	8710	-
7450	614	000000	436	STOUGHTON LUMBER CO	5.58	Plug for air line at Well No. 7	02/10/2017	7400	-
7430	926	000000	355	STUART C IRBY	70.00	Winter FR hats	02/15/2017	4100	-
7430	593	000000	355	STUART C IRBY	13.87	Lineman wrench	02/07/2017	4100	-
7430	232	001099	355	STUART C IRBY	297.00	Guy strain Insulators	02/07/2017	4100	-
7430	583	000000	355	STUART C IRBY	67.60	Connectors	02/07/2017	4100	-
7430	593	000000	894	THE LISMORE HOTEL	328.00	School	02/06/2017	6940	-
7430	593	000000	894	THE LISMORE HOTEL	328.00	School	02/06/2017	6950	-
7430	920	000000	894	THE OLD FASHIONED	22.43	MEAL EXP	02/03/2017	5250	-
7430	143	000000	894	THE OLD FASHIONED	12.00	REIMBURSEMENTS	02/03/2017	5250	-
7430	925	000000	578	THE SHOE BOX	312.00	Safety Shoes for Cory	02/20/2017	6930	-
7450	642	000000	578	THE SHOE BOX	204.00	Safety Shoes	02/06/2017	8700	-
7450	642	000000	824	UPS 1ZG194WT0300708499	9.40	SHIPPING OF WATER SAMPLES	02/20/2017	3680	-
7450	642	000000	824	UPS 1ZG194WT0315840086	9.40	SHIPPING OF WATER SAMPLES	02/06/2017	3680	-
7430	921	000000	824	UPS 1ZG194WT0320712053	18.06	RETURN SHIPPING - WEB SECURITY GATEWAY HARDWARE REFRESH	02/24/2017	3680	-
7450	921	000000	824	UPS 1ZG194WT0320712053	6.57	RETURN SHIPPING - WEB SECURITY GATEWAY HARDWARE REFRESH	02/24/2017	3680	-
7460	851	000000	824	UPS 1ZG194WT0320712053	8.22	RETURN SHIPPING - WEB SECURITY GATEWAY HARDWARE REFRESH	02/24/2017	3680	-
7450	642	000000	824	UPS 1ZG194WT0332569839	9.40	SHIPPING OF WATER SAMPLES	02/13/2017	3680	-
7450	642	000000	824	UPS 1ZG194WT0335142043	9.40	SHIPPING OF WATER SAMPLES	02/20/2017	3680	-
7430	921	000000	824	UPS 2951N077H80	3.79	RETURN SHIPPING - SURCHARGE - WEB SECURITY GATEWAY HARDW	02/24/2017	3680	-
7450	921	000000	824	UPS 2951N077H80	1.38	RETURN SHIPPING - SURCHARGE - WEB SECURITY GATEWAY HARDW	02/24/2017	3680	-
7460	851	000000	824	UPS 2951N077H80	1.73	RETURN SHIPPING - SURCHARGE - WEB SECURITY GATEWAY HARDW	02/24/2017	3680	-
7430	921	000000	824	UPS ADJ00206511430871	1.86	RETURN SHIPPING - SURCHARGE - WEB SECURITY GATEWAY HARDW	02/27/2017	3680	-
7450	921	000000	824	UPS ADJ00206511430871	0.67	RETURN SHIPPING - SURCHARGE - WEB SECURITY GATEWAY HARDW	02/27/2017	3680	-
7460	851	000000	824	UPS ADJ00206511430871	0.86	RETURN SHIPPING - SURCHARGE - WEB SECURITY GATEWAY HARDW	02/27/2017	3680	-
7460	833	000000	571	USA BLUE BOOK	459.30	supplies	02/02/2017	8720	-
7430	921	000000	507	WAL-MART #1176	7.97	Office material	02/06/2017	5275	-
7450	921	000000	507	WAL-MART #1176	12.97	Office material	02/06/2017	5275	-
7430	597	000000	994	WEILER'S #3	5.00	METER SCHOOL	02/13/2017	5275	-
7430	370	003300	521	WESCO - # 7855	531.72	Electric meter CTs	02/20/2017	4100	-
7460	827	000000	675	WI STATE HYGIENE LAB	197.00	LAB TESTS	02/09/2017	8300	-
7430	593	000000	883	WIEDENBECK INC	234.72	METAL FOR HOT-ARM CART	02/23/2017	8700	-
7430	920	000000	994	WISCONSIN AWWA	60.50	Training expense - Registration - AWWA GIS Conference	02/23/2017	4300	-
7450	920	000000	994	WISCONSIN AWWA	22.00	Training expense - Registration - AWWA GIS Conference	02/23/2017	4300	-
7460	850	000000	994	WISCONSIN AWWA	27.50	Training expense - Registration - AWWA GIS Conference	02/23/2017	4300	-
7450	631	000000	236	WW GRAINGER	328.71	Solenoid valve for Well No. 7	02/03/2017	8400	-
7460	833	000000	927	XYLEM ONLINE PAY	1,701.75	supplies	02/03/2017	8200	-

Date: Wednesday, March 08, 2017

Time: 01:40PM

User: SGUNSOLUS

Stoughton Utilities Posting Preview Report

Select By: {PSSPurchCard.RefNbr} = '0000000070'

Company	Account	Sub	Vendor ID	Merchant	Amount	Description	Post Date	Emp ID	Projec
					Total:	33,371.17			

DRAFT STOUGHTON UTILITIES COMMITTEE REGULAR MEETING MINUTES

Monday, March 20, 2017 – 5:35 p.m.

Edmund T. Malinowski Board Room

Stoughton Utilities Administration Office

600 S. Fourth St.

Stoughton, Wisconsin

Members Present: Alderperson Michael Engelberger, Alderperson Greg Jenson, Citizen Member John Kallas, Mayor Donna Olson, and Citizen Member Alan Staats.

Excused: Alderperson Matt Bartlett and Citizen Member David Erdman.

Absent: None.

Others Present: Stoughton Utilities Finance Manager Jamin Friedl, CPA, Stoughton Utilities Assistant Director Brian Hoops and Stoughton Utilities Director Robert Kardasz, P.E.

Call To Order: Mayor Donna Olson called the Regular Stoughton Utilities Committee Meeting to order at 5:38 p.m.

Stoughton Utilities Committee Consent Agenda: Stoughton Utilities Finance Manager Jamin Friedl, Stoughton Utilities Assistant Director Brian Hoops, and Stoughton Utilities Director Robert Kardasz presented and discussed the Stoughton Utilities Committee Meeting Consent Agenda items. Discussion Followed. Motion by Alderperson Michael Engelberger, the motion seconded by Citizen Member John Kallas, to approve the following consent agenda items as presented: Stoughton Utilities Payments Due List, Draft Minutes of the February 20, 2017 Regular Stoughton Utilities Committee Meeting, Stoughton Utilities December 2016 and January 2017 Financial Summaries, Stoughton Utilities February 2017 Statistical Information, Stoughton Utilities Communications, Stoughton Utilities Committee Annual Calendar, and the Stoughton Utilities February 2017 Activities Report. The motion carried unanimously 5 to 0.

Status of The Stoughton Utilities Committee Recommendation(s) To The Stoughton Common Council: Stoughton Utilities Director Robert Kardasz presented and discussed the following items from the Stoughton Utilities Committee that were approved and placed on file by the Stoughton Common Council:

- Stoughton Utilities Bad Debt Account Write-Offs through December 31, 2016.
- Position Descriptions for the Utilities Wastewater Operator, Utilities Basic Certified Wastewater Operator, Utilities Advanced Certified Wastewater Operator, Utilities Advanced Certified Wastewater Operator / Laboratory Technician, and Wastewater System Supervisor.

DRAFT STOUGHTON UTILITIES COMMITTEE REGULAR MEETING MINUTES

Monday, March 20, 2017 – 5:35 p.m.

Stoughton, WI

Page No. 2

- Stoughton Utilities Payments Due List
- Stoughton Utilities Committee January 17, 2017 Regular Meeting Minutes
- Stoughton Utilities October and November 2016 Financial Summaries
- Stoughton Utilities 2016 and January 2017 Statistical Information

Inclusion of City Informational Flyers in Utility Billing Statements: Stoughton Utilities Assistant Director Brian Hoops presented and discussed the inclusion of City informational flyers in the Utility Billing statements. Discussion followed. Motion by Alderperson Michel Engelberger, the motion seconded by Alderperson Greg Jenson, to table. The motion carried unanimously 5 to 0.

Stoughton Utilities 2016 Annual Water Consumer Confidence Report (CCR): Stoughton Utilities Assistant Director Brian Hoops and Stoughton Utilities Director Robert Kardasz presented and discussed the Stoughton Utilities Annual Water CCR. Discussion followed.

Tour of the Stoughton Utilities Nordic Ridge Wastewater Lift Station: Stoughton Utilities Director Robert Kardasz presented and discussed the Stoughton Utilities Nordic Ridge Wastewater Lift Station and invited the committee members to participate in a tour immediately following the meeting. Discussion followed.

Stoughton Utilities Committee Future Agenda Items: Utility billing statement messages and inserts policy and the Stoughton Utilities 2016 financial audit report.

Adjournment: Motion by Citizen Member Alan Staats, the motion seconded by Alderperson Greg Jenson, to adjourn the Regular Stoughton Utilities Committee Meeting at 5:58 p.m. The motion carried unanimously 5 to 0.

Respectfully submitted

Brian R. Hoops
Stoughton Utilities Assistant Director

Stoughton Utilities

Financial Summary

February 2017-YTD

Highlights-Comparison to prior month

I have no concerns with the utility's financial status. The following items are meant to illustrate significant changes in the financial summary from prior periods.

Overall Summary:

- The February 2017 results are reasonable in comparison to the January 2017 and February 2016 results. Detailed analysis is provided below.

Electric Summary:

- Electric sales decreased \$61,300 compared to January due to decreased consumption resulting from the mild February weather conditions
- Other Electric revenue decreased \$45,600 compared to January due to increased pole attachment revenue recognized in January
- Purchased power costs decreased \$59,500 compared to January due to decreased consumption resulting from the mild February weather conditions
- Operating expenses increased \$24,200 compared to January mainly due to 2016 financial audit costs
- Non-operating income decreased \$180,200 compared to January due to the reversal of the 2016 MTM adjustment in January 2017

Water Summary:

- Water sales remained relatively stable compared to January
- Non-operating income decreased \$8,400 compared to January due to the reversal of the 2016 MTM adjustment in January 2017

Wastewater Summary:

- Wastewater sales decreased slightly compared to January due to decreased volume
- Operating expenses increased \$13,500 compared to January due to increased maintenance work
- Non-operating income decreased \$26,700 compared to January due to the reversal of the 2016 MTM adjustment in January 2017

Submitted by:

Jamin Friedl, CPA

STOUGHTON UTILITIES

Balance Sheets

As of February 28, 2017

	<u>Electric</u>	<u>Water</u>	<u>Wastewater</u>	<u>Combined</u>
Assets				
Cash & Investments	\$ 9,993,939	\$ 1,669,536	\$ 3,076,712	\$ 14,740,187
Customer A/R	1,475,178	225,982	208,273	1,909,433
Other A/R	241,428	44,970	8,389	294,787
Other Assets	861,035	532,179	328,514	1,721,728
Plant in Service	25,602,476	14,751,920	28,879,497	69,233,894
Accumulated Depreciation	(13,139,650)	(4,940,523)	(10,385,887)	(28,466,060)
Plant in Service - CIAC	3,343,044	7,378,552	-	10,721,595
Accumulated Depreciation-CIAC	(1,621,024)	(1,992,232)	-	(3,613,256)
Construction Work in Progress	197,515	93,924	105,388	396,827
GASB 68 Deferred Outflow	575,914	206,806	227,166	1,009,886
Total Assets	<u>\$ 27,529,855</u>	<u>\$ 17,971,114</u>	<u>\$ 22,448,052</u>	<u>\$ 67,949,022</u>
Liabilities + Net Assets				
Accounts Payable	\$ 74,659	\$ 63,983	\$ 45,129	\$ 183,771
Payable to City of Stoughton	511,038	466,785	5,843	983,665
Interest Accrued	91,814	26,319	46,876	165,010
Other Liabilities	405,171	86,521	124,351	616,043
Long-Term Debt	6,381,571	3,453,062	5,474,363	15,308,996
Net Assets	19,844,355	13,796,497	16,664,098	50,304,950
GASB 68 Deferred Inflow	221,246	77,947	87,394	386,587
Total Liabilities + Net Assets	<u>\$ 27,529,855</u>	<u>\$ 17,971,114</u>	<u>\$ 22,448,052</u>	<u>\$ 67,949,022</u>

STOUGHTON UTILITIES

Year-to-Date Combined Income Statement

February 2017

	Electric	Water	Wastewater	Total
<i>Operating Revenue:</i>				
Sales	\$ 2,269,213	\$ 328,217	\$ 313,458	\$ 2,910,887
Other	52,033	9,977	9,668	71,678
<i>Total Operating Revenue:</i>	\$ 2,321,245	\$ 338,193	\$ 323,126	\$ 2,982,565
<i>Operating Expense:</i>				
Purchased Power	1,713,879	-	-	1,713,879
Expenses (Including Taxes)	269,191	142,731	164,022	575,944
PILOT	66,000	70,166	-	136,166
Depreciation	165,976	76,784	135,834	378,594
<i>Total Operating Expense:</i>	\$ 2,215,046	\$ 289,681	\$ 299,856	\$ 2,804,583
<i>Operating Income</i>	\$ 106,199	\$ 48,512	\$ 23,270	\$ 177,982
Non-Operating Income	221,601	10,287	28,247	260,135
Non-Operating Expense	(24,189)	(15,666)	(22,500)	(62,355)
<i>Net Income</i>	\$ 303,611	\$ 43,133	\$ 29,018	\$ 375,762

STOUGHTON UTILITIES

Year-to-Date Combined Income Statement

February 2016

	Electric	Water	Wastewater	Total
<i>Operating Revenue:</i>				
Sales	\$ 2,468,476	\$ 295,695	\$ 325,917	\$ 3,090,088
Other	47,909	\$ 11,865	\$ 6,830	66,604
<i>Total Operating Revenue:</i>	\$ 2,516,385	\$ 307,560	\$ 332,747	\$ 3,156,692
<i>Operating Expense:</i>				
Purchased Power	1,903,249	-	-	1,903,249
Expenses (Including Taxes)	294,390	136,073	136,890	567,353
PILOT	64,166	63,334	-	127,500
Depreciation	158,234	71,534	136,666	366,434
<i>Total Operating Expense:</i>	\$ 2,420,039	\$ 270,941	\$ 273,556	\$ 2,964,536
<i>Operating Income</i>	\$ 96,346	\$ 36,619	\$ 59,191	\$ 192,156
Non-Operating Income	248,658	7,171	6,509	262,338
Non-Operating Expense	(25,582)	(16,666)	(28,334)	(70,582)
<i>Net Income</i>	\$ 319,422	\$ 27,124	\$ 37,366	\$ 383,912

STOUGHTON UTILITIES
Detailed Monthly Income Statements
February 2017

ELECTRIC

	February 2017	January 2017	Change from Prior Month	February 2016
<i>Operating Revenue:</i>				
Sales	\$ 1,103,971	\$ 1,165,241	\$ (61,270)	\$ 1,151,467
Other	3,213	48,820	(45,607)	44,960
<i>Total Operating Revenue:</i>	\$ 1,107,184	\$ 1,214,061	\$ (106,877)	\$ 1,196,427
<i>Operating Expense:</i>				
Purchased Power	827,189	886,690	(59,501)	875,284
Expenses (Including Taxes)	146,705	122,486	24,218	149,565
PILOT	33,000	33,000	-	32,083
Depreciation	82,988	82,988	-	79,117
<i>Total Operating Expense:</i>	\$ 1,089,882	\$ 1,125,164	\$ (35,283)	\$ 1,136,049
<i>Operating Income</i>	\$ 17,302	\$ 88,897	\$ (71,595)	\$ 60,378
Non-Operating Income	20,686	200,915	(180,229)	24,890
Non-Operating Expense	(10,584)	(13,605)	3,022	(14,331)
<i>Net Income</i>	\$ 27,405	\$ 276,207	\$ (248,802)	\$ 70,937

WATER

	February 2017	January 2017	Change from Prior Month	February 2016
<i>Operating Revenue:</i>				
Sales	\$ 161,741	\$ 166,476	\$ (4,735)	\$ 146,239
Other	4,994	4,983	10	6,394
<i>Total Operating Revenue:</i>	\$ 166,734	\$ 171,459	\$ (4,725)	\$ 152,633
<i>Operating Expense:</i>				
Expenses (Including Taxes)	70,122	72,608	(2,486)	63,076
PILOT	35,083	35,083	-	31,667
Depreciation	38,392	38,392	-	35,767
<i>Total Operating Expense:</i>	\$ 143,597	\$ 146,083	\$ (2,486)	\$ 130,510
<i>Operating Income</i>	\$ 23,137	\$ 25,376	\$ (2,239)	\$ 22,123
Non-Operating Income	968	9,319	(8,351)	1,000
Non-Operating Expense	(7,833)	(7,833)	-	(8,333)
<i>Net Income</i>	\$ 16,272	\$ 26,861	\$ (10,589)	\$ 14,790

WASTEWATER

	February 2017	January 2017	Change from Prior Month	February 2016
<i>Operating Revenue:</i>				
Sales	\$ 153,636	\$ 159,822	\$ (6,187)	\$ 156,430
Other	6,591	3,078	3,513	4,890
<i>Total Operating Revenue:</i>	\$ 160,226	\$ 162,900	\$ (2,674)	\$ 161,320
<i>Operating Expense:</i>				
Expenses (Including Taxes)	88,768	75,255	13,513	65,873
Depreciation	67,917	67,917	-	68,333
<i>Total Operating Expense:</i>	\$ 156,685	\$ 143,172	\$ 13,513	\$ 134,206
<i>Operating Income</i>	\$ 3,542	\$ 19,728	\$ (16,187)	\$ 27,114
Non-Operating Income	774	27,473	(26,699)	1,000
Non-Operating Expense	(11,250)	(11,250)	-	(14,167)
<i>Net Income</i>	\$ (6,934)	\$ 35,952	\$ (42,886)	\$ 13,947

STOUGHTON UTILITIES

Rate of Return

Year-to-Date February 2017

	Electric	Water
Operating Income (Regulatory)	\$ 106,199	\$ 48,512
Average Utility Plant in Service	25,018,406	14,622,940
Average Accumulated Depreciation	(12,895,396)	(4,825,244)
Average Materials and Supplies	160,945	34,704
Average Regulatory Liability	(144,044)	(222,486)
Average Customer Advances	(27,141)	-
Average Net Rate Base	\$ 12,112,770	\$ 9,609,914
Actual Rate of Return	0.88%	0.50%
Authorized Rate of Return	5.10%	6.50%
December 2016 Rate of Return	4.95%	3.46%
January 2016 Rate of Return	0.80%	0.44%

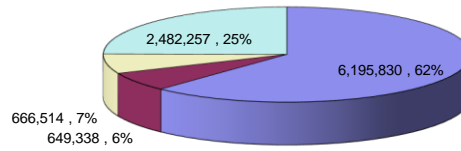
STOUGHTON UTILITIES
Cash and Investments Summary
As of February 28, 2017

Electric

February 2017

Unrestricted (5.59 months O&M)	6,195,830
Bond Reserve	649,338
Redemption Fund (P&I)	666,514
Designated	2,482,257
Total	<u>9,993,939</u>

Electric Cash - February 2017

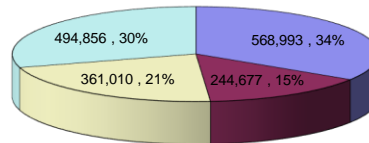
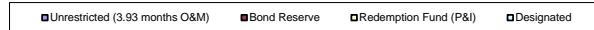


Water

February 2017

Unrestricted (3.93 months O&M)	568,993
Bond Reserve	244,677
Redemption Fund (P&I)	361,010
Designated	494,856
Total	<u>1,669,536</u>

Water Cash - February 2017

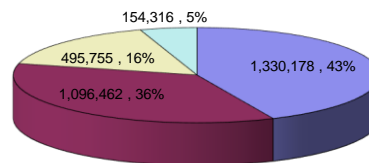


Wastewater

February 2017

Unrestricted (8.87 months O&M)	1,330,178
DNR Replacement	1,096,462
Redemption Fund (P&I)	495,755
Designated	154,316
Total	<u>3,076,711</u>

Wastewater Cash - February 2017



STOUGHTON UTILITIES
2017 Statistical Worksheet

Electric	Total Sales 2016 Kwh	Total Kwh Purchased 2016	Total Sales 2017 Kwh	Total Kwh Purchased 2017	Demand Peak 2016	Demand Peak 2017
January	12,434,016	12,616,291	12,379,222	12,812,545	23,731	23,662
February	11,135,691	11,327,318	10,691,419	10,759,773	21,504	21,934
March	10,581,639	10,809,478	11,769,668	11,607,813	20,668	20,399
April						
May						
June						
July						
August						
September						
October						
November						
December						
TOTAL	34,151,346	34,753,087	34,840,309	35,180,131		

Water	Total Sales 2016 Gallons	Total Gallons Pumped 2016	Total Sales 2017 Gallons	Total Gallons Pumped 2017	Max Daily High 2016	Max Daily Highs 2017
January	38,657,000	42,976,000	37,110,000	43,748,000	1,642,000	1,629,000
February	37,426,000	40,703,000	34,905,000	41,145,000	1,877,000	1,780,000
March	38,688,000	42,714,000	38,818,000	40,725,000	1,745,000	1,542,000
April						
May						
June						
July						
August						
September						
October						
November						
December						
TOTAL	114,771,000	126,393,000	110,833,000	125,618,000		

Wastewater	Total Sales 2016 Gallons	Total Treated Gallons 2016	Total Sales 2017 Gallons	Total Treated Gallons 2017	Precipitation 2016	Precipitation 2017
January	26,559,000	29,125,000	25,221,000	34,377,000	0.55	2.43
February	23,957,000	26,577,000	23,196,000	29,386,000	0.64	1.34
March	25,438,000	30,379,000	26,235,000	31,113,000	4.07	2.69
April						
May						
June						
July						
August						
September						
October						
November						
December						
TOTAL	75,954,000	86,081,000	74,652,000	94,876,000	5.26	6.46



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017
To: Stoughton Utilities Committee
From: Robert P. Kardasz, P.E.
Stoughton Utilities Director
Subject: Stoughton Utilities Communications

February 27, 2017	Letter from the State of Wisconsin Department of Natural Resources containing the 2016 NR 101 Wastewater Report for the Stoughton Wastewater Treatment Facility.
March 6, 2017	Stoughton Utilities billing insert offering a \$25 bill credit incentive for the purchase of new ENERGY STAR® appliances.
March 22, 2017	WPPI Energy Power Report - Spring 2017
March 22, 2017	Press release regarding National Lineman Appreciation Day on April 18.
March 24, 2017	Memo from WPPI Energy regarding member weighted votes and list of WPPI Energy Board Directors, Alternates, and Representatives
March 29, 2017	Letter to U.S. House and Senate Appropriations Committees expressing support of the Low Income Home Energy Assistance Program (LIHEAP), and requesting continued funding.
March 29, 2017	Press release regarding important legislative issues, and SU's participation in the 2017 American Public Power Association's Legislative Rally
March 29, 2017	Press release regarding the end of the winter cold-weather disconnection moratorium, ending April 15.
March 29, 2017	Final decision from the Wisconsin Public Service Commission on docket 5740-ER-109 regarding application for authority to adjust electric rates.
March 30, 2017	Letter regarding results from the March 15, 2017 customer-sited distributed generation test.
March / April 2017	American Public Power Magazine, published by the American Public Power Association (APPA).

April 6, 2017

WPPI Energy memorandum “Things You Should Know” from President and CEO Michael W. Peters.

April 7, 2017

Stoughton Utilities billing insert offering a \$25 bill credit incentive for the purchase of a new Smart Thermostat.

Encl.



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

News Release

Stoughton Utilities

FOR IMMEDIATE RELEASE

March 29, 2017

Contact: Robert Kardasz, Utilities Director

Local Leaders Advocate on National Energy Policy Issues

Municipal bonds are essential for communities like Stoughton to affordably build critical infrastructure and provide residents with essential services, and they should remain tax-exempt. That's one of the messages local officials and utility managers delivered in person to members of Congress on February 27 through March 1 in Washington, D.C., during the American Public Power Association's Annual Legislative Rally.

Utilities Director Robert Kardasz and Assistant Utilities Director Brian Hoops participated in the event with funding support from the community's not-for-profit power supplier, WPPI Energy.

Across the U.S., public power utilities like municipally owned Stoughton Utilities make \$11 billion in new investments financed with municipal bonds each year. This helps them affordably finance the power generation, distribution, efficiency and emissions controls equipment needed to deliver safe, affordable and reliable electricity for local customers.

"As Congress continues to consider possible approaches to tax reform and deficit reduction, we urged them to help us keep costs down by preserving the current tax exemption for municipal bonds," said Utilities Director Robert Kardasz. "Without tax-exempt bonding, our cost of borrowing would increase and all projects we undertake to ensure reliable delivery of power would cost our customers more on their monthly electric bills. We just don't think that is right."

Stoughton attendees met with Rep. Mark Pocan, Senator Tammy Baldwin and Senator Ron Johnson during their visit.

Other topics at the meetings included highlighting the proactive measures Stoughton Utilities implements to protect data and assets and ensuring that any policy addressing physical and cyber security of the electric grid is not a one size fits all solution that may make sense for a multi-billion dollar utility, but be cost prohibitive and unnecessary for a smaller utility. Stoughton attendees also requested that any potential federal infrastructure bill include funding for critical energy infrastructure such as high speed transmission lines and a smarter electric grid.



Founded in 1886, Stoughton Utilities serves electric customers in Stoughton and the surrounding area, and wastewater and water customers in Stoughton.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor
Cathy Stepp, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2621
FAX 608-267-3579
TTY Access via relay-711

STOUGHTON UTILITIES

MAR 09 2017

RECEIVED
STOUGHTON, WI

February 27, 2017

Robert P Kardasz, Utilities Director
Stoughton Wastewater Treatment Facility
600 South Fourth Street PO Box 383
Stoughton, WI 53589

RE : Notification of Environmental Fee to be Assessed for WPDES WI - 0020338

Dear Permittee,

Enclosed is a wastewater summary report for you to review and correct, if necessary. Section 299.15 of the Wisconsin Statutes and chapter NR101 of the Wisconsin Administrative Code require this report to collect accurate data for assessing wastewater fees based on your wastewater discharges in 2016 . Section 299.15 establishes the wastewater fee program to recover the annual cost of the Department's water pollution control functions from holders of WPDES permits.

This summary report contains an estimate of the wastewater fees based on your WPDES Discharge Monitoring Reports (DMR) data. The average flow and concentration values used in the calculations are calculated by the DNR database based on the individual sample results reported. The results may not mirror the summary values reported on the DMRs due to the manner in which our database addresses significant figures to the right of the decimal point. **THIS IS NOT A BILLING STATEMENT!** The Environmental Fee statements will be mailed out at the end of May.

Provisions of S. 299.15, Statutes provide for calculating fees by using a five year rolling average and freezing the annual adjustment factor at the 1999 level. The rolling average is prospective in nature and began with the calculation of the 2000 fees. This change makes the wastewater fees program a performance based system. Fees should be reduced when treatment is improved. The summary report shows our calculations for each billable substance by sample point. The following formulas and definitions are used:

Pounds = Monthly Average Concentration (mg/l) X Monthly Average Flow (MGD) X 8.34

Amount Due = Pounds X Rate per Pound X Days X Adjustment Factor

5-year rolling average - The average of data from the current year, plus the previous 4 years of data available since the beginning of calendar year 2000. Where 5 years of data is not available, the 5-year rolling average means the average of data from the current year plus any available data from the previous 4 years.

Rate - The inverse of the lowest limit in effect for the month (i.e., 1 / limit).

The number of days in each month is used for this estimate. If your facility doesn't discharge every day, you should correct the number to the actual number of operating days . The adjustment factor for municipalities is 2.4510 and 5.0492 for industries. Phosphorus fees are calculated using a set rate of \$0.34 per pound.

The wastewater fee is the greater of the sum of discharge fees calculated as above, or a base fee of \$250 for minor permits, or \$500 for major permits.

WHAT DO YOU NEED TO DO?

You should confirm that our calculated monthly numbers from your DMR's are accurate. Any changes or corrections should be made by writing the new number directly above the old number. Please verify that we have used the right number of discharge days and confirm that the pollutants listed in the summary have a limit in effect during each month listed.

If you report monthly maximum values on your DMR's and not monthly averages, you should calculate the monthly average discharges and enter those numbers on the report. If we have not included a month when discharges occurred and limits were in effect, you must add in the pounds, rate, and number of days.

You should be aware that S. NR 101, Wis. Adm. Code allows any individual analytical value which is less than the level of quantification (LOQ) for that substance to be treated as a zero. The test method used must be according to current standards. These zeros should be incorporated into the monthly average. You may need to recalculate the monthly averages to include any zero values. If the calculated average is below the LOQ, you will be billed. The Department expects a reporting limit of 2 mg/L for LOD and LOQ for BOD5 and TSS.

Dischargers are allowed to deduct the amount of substances present in the influent to the facility. The influent for municipal facilities is the drinking water source serving the municipality. Dischargers who use surface water as an influent source may benefit from this deduction, which is discussed in S. NR101.12 (7), Wis. Adm. Code.

The Administrative Code allows the Department to bill the permitted facilities that discharge to land disposal systems for the excess nitrogen applied to land. We continue to have difficulty loading land application data from the previous year in a timely manner and so will not be including this information in the wastewater fee program. The Department will evaluate the timing of the receipt of this reported data and identify the available options. The amount of revenue collected from this source would be minor since the codes require the permitted facility to match the nitrogen applied to the needs of the crop.

After you have completed noting any changes, please sign the report and provide us with a phone number and email address so we can contact you in the event of any questions. Indicate the reason for any changes using the check options at the end of the report. Make a copy for your files, then send the original summary pages back to us in the envelope provided, or to DNR, Keri Behm - WT/3, PO Box 7921, Madison WI 53707-7921. **YOU MUST RETURN THE SUMMARY BY APRIL 1, 2017, EVEN IF NO CHANGES ARE MADE.**

The Environmental Fee statements, containing the wastewater fees and any other applicable fees, will be mailed out at the end of May 2017. You will then have thirty days to pay the entire fee.

If you would like to discuss the summary, please call Keri Behm at (608) 266-3291 (keri.behm@wisconsin.gov) or me at (608) 266-2666 (adrian.stocks@wisconsin.gov).

Sincerely,



Adrian G. Stocks, Section Chief
Permits Section

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES
2016 NR 101 WASTEWATER REPORT**

Permit # : 0020338

FORM 3200 - 18

Stoughton Wastewater Treatment Facility

REV.01/03

THIS REPORT OF YOUR 2016 WPDES DISCHARGE MONITORING REPORT DATA IS PROVIDED UNDER SECTION 299.15, WIS. STATS AND CHAPTER NR 101 WIS. ADMIN. CODE. THIS REPORT PROVIDES AN OPPORTUNITY TO REVIEW AND CORRECT THE RECORDED RESULTS FOR YOUR FACILITY, IF NECESSARY. TO CORRECT A VALUE, WRITE THE NEW VALUE ABOVE THE OLD AND CHECK THE REASON FOR THE CORRECTION AT THE END OF THE REPORT. YOU MUST RETURN THE REPORT BY APRIL 1, 2017, EVEN IF YOU MADE NO CHANGES, OR ELSE BE IN VIOLATION OF 299.15(4), WHERE THE AUTHORITY TO ASSESS A MONETARY PENALTY OF UP TO \$10,000 IS PROVIDED. RETURN USING THE ENVELOPE PROVIDED OR SEND TO DNR, KERI BEHM - WT/3, P.O BOX 7921, MADISON WI - 53707-7921. PERSONALLY IDENTIFIABLE INFORMATION WILL BE USED FOR THE PURPOSE OF THE NR 101 WASTEWATER FEE PROGRAM.

TOTALS FOR THE CURRENT YEAR WILL BE USED IN THE CALCULATION OF FEES DUE BASED ON THE FIVE YEAR PROSPECTIVE ROLLING AVERAGE METHOD. THE ADJUSTMENT FACTOR USED IN THIS ESTIMATE IS 2.451.
CONTACT KERI BEHM AT (608) 266-3291 OR ADRIAN STOCKS AT (608) 266-2666 IF YOU HAVE QUESTIONS.

Sample Point : 001 280 Mercury, Total Recoverable								
	Avg Flow(MGD)	Avg Conc.(mg/L)	Pounds	Rate(\$)	Days	Adj. Factor	Amount Due	
JAN,2016	0.9059	0.0000025	0.0000189	2500	91	2.451	\$10.54	
APR,2016	0.9097	0.0000012	0.0000091	2500	91	2.451	\$5.07	
JUL,2016	0.9452	0.0000013	0.0000102	2500	92	2.451	\$5.75	
OCT,2016	0.9935	0.0000015	0.0000124	2500	92	2.451	\$6.99	
Total Annual Pounds of Mercury, Total Recoverable 0							Parameter Total:	\$28.35

Sample Point : 001 388 Phosphorus, Total								
	Avg Flow(MGD)	Avg Conc.(mg/L)	Pounds	Rate(\$)	Days	Adj. Factor	Amount Due	
JAN,2016	0.9038	0.6233	4.5833	0.34	31	2.451	\$118.40	
FEB,2016	0.8849	0.7592	5.5231	0.34	29	2.451	\$133.48	
MAR,2016	0.9278	0.775	5.9571	0.34	31	2.451	\$153.89	
APR,2016	0.9494	0.7242	5.6917	0.34	30	2.451	\$142.29	
MAY,2016	0.8994	0.655	4.92	0.34	31	2.451	\$127.10	
JUN,2016	0.8806	0.5023	3.6846	0.34	30	2.451	\$92.12	
JUL,2016	0.9414	0.7325	5.6333	0.34	31	2.451	\$145.53	
AUG,2016	0.9486	0.4033	3.1533	0.34	31	2.451	\$81.46	
SEP,2016	0.9457	0.465	3.825	0.34	30	2.451	\$95.63	
OCT,2016	0.9352	0.5485	4.1538	0.34	31	2.451	\$107.31	
NOV,2016	0.9986	0.485	4.2286	0.34	30	2.451	\$105.72	
DEC,2016	1.047	0.5633	4.9833	0.34	31	2.451	\$128.74	
Total Annual Pounds of Phosphorus, Total 1718							Parameter Total:	\$1,431.67

Sample Point : 001 457 Suspended Solids, Total							
	Avg Flow(MGD)	Avg Conc.(mg/L)	Pounds	Rate(\$)	Days	Adj. Factor	Amount Due
JAN,2016	0.9038	9.4	69.1	0.033	31	2.451	\$173.26
FEB,2016	0.8849	11.8	86	0.033	29	2.451	\$201.72
MAR,2016	0.9278	11.6	87.7	0.033	31	2.451	\$219.90
APR,2016	0.9494	14.3	111.2	0.033	30	2.451	\$269.83
MAY,2016	0.8994	12.4	94.1	0.033	31	2.451	\$235.94
JUN,2016	0.8806	9	66.1	0.033	30	2.451	\$160.39
JUL,2016	0.9414	11.2	85.4	0.033	31	2.451	\$214.13
AUG,2016	0.9486	4.9	37.9	0.033	31	2.451	\$95.03
SEP,2016	0.9457	5.7	46.6	0.033	30	2.451	\$113.07
OCT,2016	0.9352	8.1	62.8	0.033	31	2.451	\$157.46

Sample Point : 001 457 Suspended Solids, Total

	Avg Flow(MGD)	Avg Conc.(mg/L)	Pounds	Rate(\$)	Days	Adj. Factor	Amount Due	
NOV,2016	0.9986	6.8	58.4	0.033	30	2.451	\$141.71	
DEC,2016	1.047	10.3	90.5	0.033	31	2.451	\$226.92	
Total Annual Pounds of	Suspended Solids, Total 27316						Parameter Total:	\$2,209.36

Sample Point : 001 649 CBOD5

	Avg Flow(MGD)	Avg Conc.(mg/L)	Pounds	Rate(\$)	Days	Adj. Factor	Amount Due	
JAN,2016	0.9038	4.1	30.8	0.04	31	2.451	\$93.61	
FEB,2016	0.8849	4.8	35.7	0.04	29	2.451	\$101.50	
MAR,2016	0.9278	3.8	29.4	0.04	31	2.451	\$89.35	
APR,2016	0.9494	5.7	44.9	0.04	30	2.451	\$132.06	
MAY,2016	0.8994	5.2	39.7	0.04	31	2.451	\$120.66	
JUN,2016	0.8806	4.6	33.6	0.04	30	2.451	\$98.82	
JUL,2016	0.9414	4.2	34.1	0.04	31	2.451	\$103.64	
AUG,2016	0.9486	2.3	18.3	0.04	31	2.451	\$55.62	
SEP,2016	0.9457	3.2	25.8	0.04	30	2.451	\$75.88	
OCT,2016	0.9352	3.9	31.6	0.04	31	2.451	\$96.04	
NOV,2016	0.9986	2.6	21.4	0.04	30	2.451	\$62.94	
DEC,2016	1.047	3.4	29.6	0.04	31	2.451	\$89.96	
Total Annual Pounds of	CBOD5 11425						Parameter Total:	\$1,120.08

Sample Point : 001 789 Nitrogen, Ammonia (NH3-N) Total

	Avg Flow(MGD)	Avg Conc.(mg/L)	Pounds	Rate(\$)	Days	Adj. Factor	Amount Due	
JAN,2016	0.9038	15.85	119.4724	0.02	31	2.451	\$181.55	
FEB,2016	0.8849	12.3431	91.0929	0.02	29	2.451	\$129.50	
MAR,2016	0.9278	11.5	88.9853	0.02	31	2.451	\$135.22	
APR,2016	0.9494	21.125	167.2677	0.02	30	2.451	\$245.98	
MAY,2016	0.8994	14.0529	105.4107	0.02	31	2.451	\$160.18	
JUN,2016	0.8806	17.7385	130.2752	0.02	30	2.451	\$191.58	
JUL,2016	0.9414	7.5983	59.6564	0.02	31	2.451	\$90.66	
AUG,2016	0.9486	2.49	19.6992	0.02	31	2.451	\$29.94	
SEP,2016	0.9457	9.7383	76.8073	0.02	30	2.451	\$112.95	
OCT,2016	0.9352	4.7431	36.9941	0.02	31	2.451	\$56.22	
NOV,2016	0.9986	6.6314	55.2284	0.02	30	2.451	\$81.22	
DEC,2016	1.047	10.8425	94.6765	0.02	31	2.451	\$143.87	
Total Annual Pounds of	Nitrogen, Ammonia (NH3-N) Total 31801						Parameter Total:	\$1,558.87
							Facility Subtotal:	\$6,348.33

Reasons for changing summary data (Check any that apply)

- The limit was not in effect for any part of the year (Strike out the data for that substance)
- The number of days shown is not the actual number of discharge days.
- An influent deduction reduced the pounds. (Provide supporting documentation)
- Other, please explain

Values based on actual discharge	2012	2013	2014	2015	2016
Parameter Description					
CBOD5	1114.11	1282.9	978.76	894.37	1120.08

Values based on actual discharge					
Parameter Description	2012	2013	2014	2015	2016
Mercury, Total Recoverable	*****	*****	7.99	30.7	28.35
Nitrogen, Ammonia (NH3-N) Total	*****	*****	0	312.73	1558.87
Phosphorus, Total	1232.06	1471.23	1086.16	972.8	1431.67
Suspended Solids, Total	1169.21	1673.71	1346.57	1571.85	2209.36
Total	\$3,515.38	\$4,427.84	\$3,419.48	\$3,782.45	\$6,348.33

Values based on rolling average					
Parameter Description	2012	2013	2014	2015	2016
CBOD5	1741.43	1542.43	1312.25	1157.57	1078.04
Mercury, Total Recoverable	*****	*****	7.99	19.35	22.35
Nitrogen, Ammonia (NH3-N) Total	*****	*****	0	156.37	623.87
Phosphorus, Total	2090.87	1978.73	1641.33	1341.08	1238.78
Suspended Solids, Total	1912.77	1782.61	1583.75	1525.15	1594.14
Estimated Total	\$5,745.07	\$5,303.77	\$4,545.32	\$4,199.52	\$4,557.18
Minimum Base Fee	\$500.00	\$500.00	\$500.00	\$500.00	\$500.00
Estimated Total due	\$5,745.07	\$5,303.77	\$4,545.32	\$4,199.52	\$4,557.18

NOTE: ESTIMATE ONLY - DO NOT PAY AT THIS TIME

NAME OF PERSON COMPLETING THE FORM _____

PHONE NUMBER _____

E-MAIL ADDRESS _____

Out with the Old IN WITH THE NEW AND EFFICIENT

Apply
for a \$25
bill credit
today!

Stoughton Utilities customers can receive a \$25 bill credit incentive on the purchase of certain ENERGY STAR rated products. ENERGY STAR qualified appliances incorporate advanced technologies that use 10-50% less energy and water than standard models. Look for the ENERGY STAR logo.

INCENTIVES AVAILABLE FOR ENERGY STAR:

- Dehumidifiers
- Residential Clothes Dryers
- Residential Clothes Washers
- Residential Dishwashers
- Residential Freezers
- Residential Refrigerators
- Room Air Cleaners



Stoughton Utilities

Shared strength through  WPPI Energy

stoughtonutilities.com • (608) 873-3379

To request your bill credit, please complete the form below. Return the form along with a copy of your receipt to our office, or scan and email to CustomerService@stoughtonutilities.com. To qualify for this rebate, products must be listed as an ENERGY STAR appliance at energystar.gov. Available for purchases made in 2017. Completed form and receipts must be received prior to December 1, 2017. Limit two rebates per customer, subject to available program funding.

ENERGY STAR REBATE

Customer Name (first, last)

Utility Account Number

Customer address

City, State

Zip Code

()

Home Telephone No.

()

Daytime Telephone No.

ENERGY STAR Product

Brand

Model #

WPPI Energy to Purchase Output from Wisconsin's Largest Solar Facility

In January, WPPI Energy entered into a 20-year power purchase agreement with NextEra Energy Resources (NextEra). Under the agreement, NextEra will construct a 100-megawatt solar energy center near Two Rivers, Wis., and WPPI Energy will purchase all of the center's output starting in 2021.

The Point Beach Solar Energy Center will be constructed adjacent to the Point Beach Nuclear Plant. It will be the largest generator of solar energy in Wisconsin, with capacity to serve more than 23,000 homes with affordable, clean energy.

It will also provide economic growth for the area. "This energy center will harness the state's own sunshine to create clean, renewable energy, as well as good-paying jobs and increased tax revenue for the state and local community," said Mike O'Sullivan, senior vice president of development for NextEra.

The solar energy center will create 150-200 jobs during its construction period, which will begin in 2021 and is estimated to last 6-9 months.

"Energy has been an important part of our economic mix here in the Two Rivers area for a long time, and this happily further affirms that role," said Two Rivers City Manager Greg Buckley.



The Point Beach Solar Energy Center will use solar photovoltaic panels similar to the ones pictured from the River Bend solar site in Florence, Alabama to convert sunlight into electricity.

"Energy has been an important part of our economic mix here in the Two Rivers area for a long time, and this happily further affirms that role."

The solar project is a good fit for several reasons.

"This solar energy center adds diversity to WPPI Energy's power supply portfolio in a way that's more cost-effective than other opportunities currently available to us," said Mike Peters, president and CEO of WPPI Energy. "In addition, WPPI Energy has achieved significant emissions reductions over the past 10 years, and the clean, renewable energy generated by this project will help us continue that effort."

The power purchase agreement will build on an existing relationship between the two organizations. WPPI Energy has two power purchase agreements with NextEra for output from the Point Beach Nuclear Plant and the Butler Ridge Wind Energy Center in Dodge County, Wis.



The Point Beach Solar Energy Center will be built adjacent to the Point Beach Nuclear Plant (pictured) in Two Rivers, Wis. Photos courtesy of NextEra

A Year in Review

In times of change, it's important to adapt and grow while still remaining true to our values as a not-for-profit joint action agency. Looking back at WPPI Energy's accomplishments in 2016, I think we were able to do that. Here are some highlights from the past year:

Member All-Requirements Contract Extensions

In March, we completed our member all-requirements contract extensions efforts. The enthusiastic response we received was a great example of member unity. The new power supply agreements are in place through 2055.

Bond Issuance

Also in March, the WPPI Energy Board of Directors authorized the issuance of WPPI Energy's Series 2016A bonds in order to refund an \$82 million portion of our 2008A bonds. As a result, our net present value savings on the refunding will total more than \$9.8 million.

Member Feedback Survey

In July, we wrapped up our most recent member feedback survey to measure member satisfaction with WPPI Energy's performance as a power supplier and service provider. The responses affirmed that overall member satisfaction remains very high, and also helped identify areas of focus as we continue strengthening our joint action agency to best serve members and their communities now and into the future.

WPPI Energy Business Plan

Throughout 2016, the membership participated in planning meetings and provided feedback to shape the development of the 2017-2021 WPPI Energy Business Plan. The business plan, which was developed to respond to a rapidly-changing industry, identifies priorities in three major categories: power supply planning, technology and meeting customers' evolving expectations.

I urge you to continue to be active and involved in 2017. Times of change aren't easy, but as in the past, our unity will be the key to our success.



WPPI Energy is a regional, not-for-profit power company serving 51 locally owned electric utilities. Through WPPI Energy, these public power utilities share resources and own generation facilities to provide reliable, affordable electricity to 200,000 homes and businesses in Wisconsin, Upper Michigan and Iowa.

Member Spotlight: Menasha, Wisconsin

Menasha is part of the Fox Cities, 20 communities that together make up one of Wisconsin's largest urban areas. Menasha is sometimes referred to as "Your Place on The Water" since its location alongside Lake Winnebago, Little Lake Butte des Morts and the mouth of the Fox River makes it an ideal location for water-centric industries and recreation.

Menasha Utilities

Menasha Utilities (MU) was established in 1906 and provides electric services to 9,055 customers and water services to 5,022 customers. The utility was a founding member of the state-wide trade association Municipal Electric Utilities of Wisconsin, commonly known as MEUW.

MU has been a WPPI Energy member since 1981, and many MU employees have been active on advisory groups and committees throughout the years.

"I think there's great benefit to having a joint partnership with other members and with WPPI," says General Manager Melanie Krause. "It's important to be able to share ideas and take lessons learned, resources, etc. from other members and tailor them to our organization."

Stronger Together

The WPPI Energy community was especially important to Menasha in 2011, when the city faced financial issues stemming from the closing of their unprofitable steam plant.

WPPI Energy bought MU's electric distribution assets and leased them back to the utility so operations could continue. This transaction provided the revenue needed to resolve their financial issues. Although the transaction involved some risk, it was important to the other WPPI Energy members to ensure the health of their fellow utility and the WPPI Energy membership as a whole.

"One of the foundations of joint action is that we have each other's back. The lease back agreement is a good example of how joint action was able to provide opportu-



Menasha's waterfront location provides several recreational opportunities.

nities that wouldn't have been available otherwise," says Mike Peters, President and CEO of WPPI Energy.

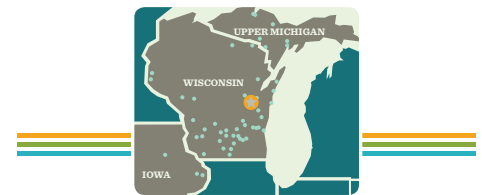
At the beginning of March, MU was able to buy back its assets and close on the lease agreement 14 years sooner than the original 20-year term. The utility financed the repurchase through the BCPL State Trust Fund Loan Program, and in doing so will save their customers over \$2.5 million.

"It's a great partnership that we have with WPPI Energy to be able to accomplish what we did, says, Krause. "They helped us through that difficult time, and now we are able to refinance and buy back our assets in our sixth year of lease payments. The utility is stronger and we can move forward."

In 2014, the steam plant got a new purpose as a food processing facility when the utility sold it to Simply Incredible Foods. It was a win-win situation. Simply Incredible Foods got space to expand, and the utility was able to focus on their core electric and water distribution services.

"From my perspective, to take a steam utility plant and convert it over to a food

Continued on page 4...



MENASHA FAST FACTS

Counties: Winnebago, Calumet

Electric customers: 9,055

Member website:

www.menashautilities.com

Did you know?

- Menasha comes from "Menashay," a Ho-Chunk word for "Settlement on an island."
- The University of Wisconsin - Fox Valley is located in Menasha. The campus houses the Barlow Planetarium and Weis Earth Science Museum.
- Metropolitan Opera company member Jean Kraft (mezzo-soprano) and Connie Clausen, a television and Broadway actress, literary agent, and author, are both from Menasha.
- Menasha is the hometown of three-time World Series champion and 2002 American League rookie of the year, Eric Hinske.
- WPPI Energy member since 1981

processing facility is pretty visionary. It was a unique circumstance that provided benefit for both our organizations,” says Krause.

Strong Local Industry

MU is the second largest WPPI Energy member utility in terms of load, with 75 percent of that load coming from nine industrial customers. Among these are SCA Tissue, a manufacturer of consumer tissue products; U.S. Paper Mills Corp., a paper and packaging manufacturer; Coveris, a packaging and coating company; and RR Donnelly/LSC Communications, a printing, binding and marketing company.

As an MU customer, SCA Tissue is eligible for incentive funding from WPPI

Energy and state program Focus on Energy. The two organizations recently contributed \$66,500 and \$9,000 respectively to help SCA Tissue develop and install coordinated air compressor system controls to maximize the system and collect data to improve energy efficiency and plan maintenance. It’s estimated that the project will save 1,730,000 kilowatt-hours (kWh) of energy per year for an annual savings of \$115,000.

MU is also in the third and final year of an LED street lighting project with the City of Menasha. City officials plan to upgrade over 800 street lights to energy efficient LED lights. The city is receiving \$34,200 from WPPI Energy’s Utility and Municipal Building efficiency incentive

program and another \$34,200 from Focus on Energy for the project. It’s projected to help the city save 393,000 kWh of energy and \$64,460 every year in energy and monthly fixed charges.

Community Outreach

As a locally owned, not-for-profit utility, MU hosts several events to “try to get out in the public and put a face to the utility,” says Krause. These include an electronics recycling event in the spring and fall; a booth at the Menasha Farm Fresh Market with LED light bulbs and other giveaways; and an annual breakfast where landlords and utility employees discuss energy efficiency programs, regulatory concerns and the utility’s collection process.

In the first full week of October, the utility hosts its annual Public Power Week celebration. The community event includes free energy efficiency kits; refreshments; booths from partner organizations; and interactive displays put together by the line crew, including a transformer demonstration, a scaled down electric pole, and a display toilet to show how to detect leaks.

Menasha’s unique waterfront location continues to attract businesses, residents and visitors to the community. As the city grows, utility employees continue to look for ways to further improve programs, services and tools to meet the needs of customers.



Menasha has a full service marina with 87 seasonal boat slips, boater amenities and a gift shop.

WPPI ENERGY NEWS

New Members Elected to WPPI Energy Committees and Advisory Groups:

- **Distribution Services Advisory Group (DSAG):**
 - *Newly Elected:* Scott Adler, Jefferson; Pat Weber, Eagle River (one-year term); Neal Wozney, Whitehall
 - *Term Renewed:* David Herfel, Mount Horeb; Randy Posthuma, Waupun
- **Policy & Communications Leadership Council (PCLC):**
 - *Newly Elected:* None
 - *Term Renewed:* Jim Brooks, Evansville; Jeff Feldt, Kaukauna; Roger Steingraber, New London; Pat Weber, Eagle River
- **Rates Services Advisory Group (RSAG):**
 - *Newly Elected:* Jeff Feldt, Kaukauna (two-year term); Jared Oosterhouse, Waupun; John Schuh, Oconomowoc (two-year term)
 - *Term Renewed:* Melanie Krause, Menasha; Kevin Westhuis, River Falls

New Committees/Advisory Groups Formed

Two new WPPI Energy groups were formed in 2017

- **Outage Management Task Force (OMTF):** The OMTF met for the first time January 25. The group will evaluate options for best meeting a diverse range of outage management needs and working with disparate systems across the membership.
- **Member Services Advisory Group:** The Energy Services Advisory Group (ESAG) and Information Technology Advisory Group (ITAG) combined to form the new Member Services Advisory Group (MSAG). MSAG formed with the goal of working on priorities laid out in the business plan, especially those regarding customer expectations and technology.

MEMBER NEWS

Members Attend Customers First! Coalition's Power Breakfast

Eight WPPI Energy utility representatives from Columbus, Evansville, Sun Prairie, Kaukauna, Waunakee, Reedsburg and Eagle River joined WPPI Energy employees, state representatives and other attendees at the Customers First! Coalition's annual Power Breakfast February 16. The main topic of discussion was the value of a regulated energy market in Wisconsin. Presenters included Nate Zolik, an administrative and regulatory attorney focusing on energy regulatory matters, Vikram Godbole, Regional Director of External Affairs for the Central Region of Midcontinent Independent Service Operator, Inc. and Public Service Commission of Wisconsin (PSCW) Chair Ellen Nowak.

WPPI Energy Representatives Attend APPA Legislative Rally:

48 member advocates representing 21 WPPI Energy member communities



Pictured from left: Don Baumann (Hustisford), Randy Jaeckels (New Holstein), Todd Tessmann (Hustisford), Glen Falkenthal (Hustisford), Mayor Dianne Reese (New Holstein), Mike Peters (WPPI Energy), Lee Meyerhofer (Kaukauna) and Cliff White (Sturgeon Bay)

attended the 2017 American Public Power Association (APPA) Legislative Rally Feb. 27 - Mar. 1 in Washington, D.C. The legislative rally is an important opportunity for municipal utilities and

the communities they serve to have their voices heard by members of Congress. Topics of discussion included tax-exempt municipal bonds, cyber security, energy infrastructure and regulatory reforms.

STATE ENERGY POLICY UPDATES

Wisconsin

Key Energy Committee Chairpersons Named:

- Rep. Mike Kuglitsch (R-New Berlin) will chair the Assembly Energy and Utilities Committee again this session.
- Sen. Devin LeMahieu (R-Oostburg) will be the new Chair of the Senate Elections and Utilities Committee. Plymouth is in his district.
- Sen. Rob Cowles (R-Green Bay) will again chair the Senate Natural Resources and Energy Committee. Kaukauna is in his district.

PSCW Allocates Funding to Rural Wisconsin:

The Public Service Commission of Wisconsin (PSCW) is allocating up to \$26 million toward rural energy efficiency programs. The PSCW recently found that the benefits

some rural customers received from the Focus on Energy program were disproportionate to those received by urban customers. The funding is intended to address this discrepancy and encourage broadband expansion in rural Wisconsin. The PSCW also announced a decision to provide up to \$20 million in funding to develop a hub and spoke anaerobic digester system.

Iowa

Iowa Senate Commerce Committee

Chairperson Named: Sen. Bill Anderson (R-Pierson) was named Chair of the Iowa Senate Commerce Committee. Rep. Peter Cownie (R-West Des Moines) will maintain his role as House Commerce Committee Chair. All energy and utility legislation passes

through the House and Senate Commerce Committees.

Michigan

Michigan Energy Legislation Signed into Law:

The Michigan Legislature passed two bills addressing a host of energy and utility policies. The long-debated bills received bipartisan, but not unanimous support. Key changes include:

- Mandatory integrated resource planning filings by rate-regulated utilities
- A 5% increase in the renewable portfolio standard
- Requirements for utilities and alternative electric suppliers to demonstrate they have the capacity to serve their customers
- Mechanisms intended to encourage utilities and alternative electric

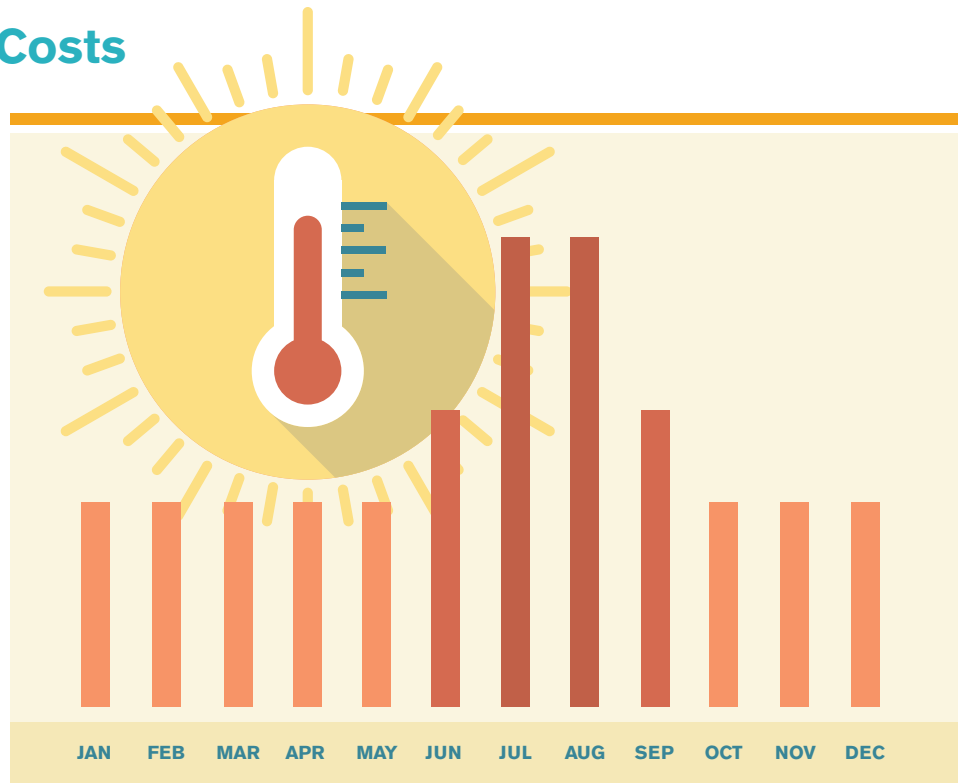
Continued on page 7

Seasonal Electricity Costs

This year, in order to more accurately reflect seasonal differences in the cost of electricity, WPPI Energy's monthly wholesale price and member utility prices will follow a seasonal profile, in which the cost of power is more expensive in the summer months than the rest of the year.

Electricity is more expensive in the summer, because utilities need to have more generation and transmission capacity available to serve the peak demand for electricity. This usually occurs between June and September when customers increase their use of appliances and other equipment that require a lot of electricity, such as air conditioning and refrigeration.

When demand for electricity is high, there is a corresponding price increase in the energy markets. This makes it more expensive for energy wholesalers, such as WPPI Energy, to purchase electricity. This means it's also more expensive for our member utilities to purchase the electricity needed to serve their customers during times of high demand. As a result, customers will likely see higher bills between June and September, and lower bills during the other eight months. This shift will typi-



As temperatures rise, so does the cost of electricity.

cally be reflected through the Power Cost Adjustment Clause on a customer's bill (on a per kilowatt-hour basis).

Overall, the annual amount most customers pay for electricity will be comparable to previous years.

Making energy efficiency improvements, using less energy and shifting load to reduce peak demand are especially

important in the summer months and will help customers save money.

Resources are available to help customers identify energy efficiency opportunities and get connected with incentive or financing programs. Contact your Energy Services Representative for more information.

Energy Efficiency Measures to Help Your Business Save Money

There are many ways to cut down on your business' energy usage during peak hours in the summer when electricity costs are highest. Some of these include:

- Retrofitting fans and other cooling systems to be more energy efficient
- Improving industrial ventilation, refrigeration and cold storage systems
- Shifting production or processes to off-peak times

Your utility has several resources to help you, including:

- Energy efficiency incentive funding - There are several programs through which a business can receive funding to help offset the cost of installing energy efficient equipment and/or upgrading current inefficient equipment.

Taking measures to help the grid during times in which we need to shed load can save you money, too. Here are a couple programs your utility provides:

- Interruptible load credits - Interruptible load credits are available to eligible

customers that are able and willing to curtail energy use upon request. Customers most suited for this type of arrangement are those that can periodically "interrupt" their operation with minimal impact to their business.

- Backup Generator Program - Financial incentives are available for business customers willing to share their backup generator capacity with WPPI Energy during select peak electricity use periods.

Continued from page 5

suppliers to invest in generation resources in Michigan

The bills won support after more controversial measures were removed.

Michigan House Energy Policy Committee Chair Named: Rep. Gary Glenn (R-Larkin Township) was named Chair of the Michigan House Energy Policy Committee. Sen. Mike Nofs (R-Battle Creek) will remain Chair of the Senate Energy and Technology Committee.

Continued from back cover

understand complex concepts.” This ability is often challenged in a new hire’s first months of work, as he or she undergoes intense book training and mentoring from veteran staff.

Thinking back on his early days, System Operator Nate Eklof says, “There was a large volume of information to process, and it took some time to learn how to interpret all the graphs, tables and webpages.” However, with help from Senior System Operator Marty Brey, he was able to work his first shift alone on the real-time desk in a matter of weeks.

“His patience is heroic,” says Eklof. “It’s not an easy job spending 12 hours at a time alone with someone who’s not used to staying up all night and trying to teach them lots of very abstract things.”

All of that information can provide a unique perspective according to Joe Greene, who worked as a system operator for several years (he’s now a planning analyst for WPPI Energy).

“I enjoyed having a bird’s eye view of the electric grid. The monitors in the operations center depict everything from members’ electric loads, to market pricing, to generator output, to weather. It’s just kind of cool to be able to see the overall picture.”

For the people who depend on reliable electricity, operations employees are the unsung heroes who make it possible – no matter what the time of day (or night).

Upcoming Technical Training Courses

Seventhwave Training | seventhwave.org/education/events

Power Quality Management and Arc Flash Safety

May 18 • Green Bay, WI

Focus on Energy Training | focusonenergy.com/about/events

Multifamily Builder Operator Certification (BOC) 1003 - Efficient Lighting Fundamentals

April 5 • Milwaukee Area Technical College, Oak Creek, WI

Building Performance Institute Certification

April 24-28 • Stevens Point, WI

Energy Efficiency Considerations for Commercial Air Conditioning Systems

April 27 • Madison, WI

Multifamily BOC 1004 - HVAC Controls Fundamentals

May 3 • Milwaukee Area Technical College, Oak Creek, WI

Industrial Ventilation - Energy Cost Reduction Opportunities

May 9 • Kohler, WI

Multifamily BOC 1005 - Indoor Environmental Air Quality

May 10 • Milwaukee Area Technical College, Oak Creek, WI

Operations and Maintenance Practices for Energy Efficiency

May 16 • Pewaukee, WI

Operations and Maintenance Practices for Energy Efficiency

May 17 • Green Bay, WI

Multifamily BOC 1006 - Common Opportunities for Low-Cost Operations

May 24 • Milwaukee Area Technical College, Oak Creek, WI

Multifamily BOC 1009 - Building Scoping for Operational Improvement

June 7 • Milwaukee Area Technical College, Oak Creek, WI

Strategic Energy Management

June 14 • Black River Falls, WI

Stronger Together: WPPI Energy Operations Department

Electricity is such a ubiquitous part of modern life that it can be easy to take for granted. Yet, behind every illuminated light, air-conditioned building and charged cell phone is a complex process that ensures electricity is available the moment it's called upon.

That process centers around the global electricity markets, which match electricity supply and demand across a regional grid. All WPPI Energy utilities and their customers are located in the midcontinent region, which is managed by the Midcontinent Independent System Operator, Inc. (MISO) electricity market.

WPPI Energy's System Operations Center (SOC) functions to maximize the value of our power supply resources in the MISO market and minimize the cost of the electricity we purchase through the market. This results in the lowest possible

cost of electricity for customers in WPPI Energy member communities.

The SOC is led by Todd Biese, Assistant Vice President of Operations, and is further staffed by people in three main roles:

- **Operations Coordinators:** facilitate the cost-effective participation of WPPI Energy's power supply resources in the MISO market and forecast the electricity needs of our members' customers on a daily basis.
- **System Operators:** staff the SOC 24x7 and are responsible for real-time communications with WPPI Energy's power supply resource partners and the MISO operations center. They also monitor incoming electricity meter data and resolve any issues.
- **Operations Analysts:** perform analysis and develop reports in an effort to

improve market outcomes for WPPI Energy's power supply resources and electricity purchases.

"Our staff members come from a variety of backgrounds," says Biese. "Usually we look for people with a college degree in an analytic field or equivalent experience. They also must have good communications skills and the ability to learn and

Continued on page 7



Pictured from left: Sam Dvorak, Jon Meyer, Kevin Kleinfelt, Tom Sikes, Jim Janz and Todd Biese. Note: Due to their rotation schedules, some members of the operations department are not pictured.



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

News Release

Stoughton Utilities

FOR IMMEDIATE RELEASE

March 22, 2017

Contact: Robert Kardasz, Utilities Director

Stoughton Utilities Recognizes Lineworkers for Service, Safety

Lineworkers have a vital role in the community, working in harsh weather and sometimes hazardous conditions to keep electricity flowing year-round and to restore power immediately during an outage. In honor of National Lineman Appreciation Day on April 18, Stoughton Utilities commends its lineworkers' commitment to service and safety.

“Our linemen are on call twenty-four hours a day, seven days a week, and they have to be ready for any situation. They’re often the first responders during storms, making the scene safe for other public safety workers. We value the work they do every day to maintain reliable service to homes and businesses,” said Stoughton Utilities Director, Robert Kardasz.

Line work isn't easy. Linemen must have the physical strength and agility to be able to climb poles, dig trenches, and more while wearing equipment that can weigh around 45 pounds. They also expose themselves to danger every day, whether it be working with high voltage lines or working hundreds of feet off the ground on a pole or in a bucket lift. Since power outages can happen at any time and can be caused by anything from a storm to a car accident, linemen need to be prepared to spring to action at a moment's notice.

Stoughton Utilities recently earned the American Public Power Association's national Electric Utility Safety Award, receiving a first place award for its outstanding safety record, including that of the lineman crew. They also received a Safety Achievement Award issued by the Municipal Electric Utilities of Wisconsin.

There continues to be a strong demand for highly trained lineworkers. Learning the trade often involves completing a technical college program, followed by an apprenticeship.

Each year, the utility awards a \$1,000 Lineworker Training Scholarship to a high school senior who plans to attend a Wisconsin technical college that offers the Electrical Power Distribution Program.

###

Founded in 1886, Stoughton Utilities serves electric customers in Stoughton and the surrounding area; and wastewater and water customers in Stoughton.

MEMORANDUM

TO: WPPI Energy Directors, Alternates and Representatives
FROM: Mike Reynolds, Secretary
DATE: March 24, 2017
SUBJECT: **Weighted Votes and List of Directors, Alternates and Representatives**

In accordance with Section 7.5 of the WPPI Energy Formation Contract, attached are the weighted votes assigned to each voting member of WPPI Energy. These weighted votes will be in effect for our Board of Directors meetings until a new tabulation is issued next April, unless new voting members are added prior to that time. Any objections to this assignment of weighted votes must be filed with WPPI Energy's Secretary within thirty days.

Section 2.1 of WPPI Energy's Bylaws requires the Secretary to publish a list in April of the duly designated Directors, Alternates and Representatives of WPPI Energy. The list for 2017 is attached to this memorandum. Please notify WPPI Energy immediately in writing of any changes.

Attachments

**WPPI Energy
WEIGHTED VOTE**

Member	Average Monthly Firm Non-Coincident Demand (kW)	Number of Votes
	January 2016 -December 2016	
Algoma	8,135	1.0
Baraga	3,592	0.4
Black River Falls	9,428	1.2
Boscobel	7,522	0.9
Brodhead	6,282	0.8
Cedarburg	18,520	2.3
Columbus	12,312	1.5
Crystal Falls	2,168	0.3
Cuba City	3,204	0.4
Eagle River	5,473	0.7
Evansville	11,567	1.4
Florence	3,120	0.4
Gladstone	5,264	0.7
Hartford	48,908	6.1
Hustisford	3,274	0.4
Independence	12,649	1.6
Jefferson	18,971	2.4
Juneau	7,935	1.0
Kaukauna	81,331	10.1
Lake Mills	11,560	1.4
L'Anse	2,097	0.3
Lodi	5,043	0.6
Maquoketa	13,354	1.7
Menasha	74,973	9.3
Mount Horeb	10,193	1.3
Muscoda	10,245	1.3
Negaunee	3,769	0.5
New Glarus	3,847	0.5
New Holstein	7,392	0.9
New London	26,103	3.3
New Richmond	15,725	2.0
Norway	1,728	0.2
Oconomowoc	38,692	4.8
Oconto Falls	4,716	0.6
Plymouth	39,670	4.9
Prairie du Sac	9,051	1.1
Preston	1,471	0.2
Reedsburg	41,377	5.2
Richland Center	16,550	2.1
River Falls	20,007	2.5
Slinger	6,841	0.8
Stoughton	24,751	3.1
Sturgeon Bay	25,219	3.1
Sun Prairie	47,405	5.9
Two Rivers	14,102	1.8
Waterloo	6,593	0.8
Waunakee	21,877	2.7
Waupun	17,308	2.2
Westby	4,378	0.5
Whitehall	6,014	0.8
	801,706	100.0

WPPI Energy Member Directors, Alternates and Representatives

(As of 02/22/17)

Member	Director/Representative	Alternate/Representative
ALGER DELTA	TOM HARRELL	VACANT
ALGOMA	PETER HAACK	NANCY JOHNSON
BARAGA	LEANN LECLAIRE	WENDELL DOMPIER
BLACK RIVER FALLS	CASEY ENGBRETSON	JULIE BABCOCK
BOSCOBEL	MIKE REYNOLDS	LIONEL SCHLUMP
BRODHEAD	JEFF PETERSON	RICHARD GRETEBECK
CEDARBURG	DALE LYTHJOHAN	ANDY MOSS
COLUMBUS	ERIC ANTHON	JACK SANDERSON
CRYSTAL FALLS	DAVID GRAFF	PATRICK REAGAN
CUBA CITY	GEORGE MORRISSEY	VACANT
EAGLE RIVER	PATRICK WEBER	JOHN LASZCZKOWSKI
EVANSVILLE	JIM BROOKS	MARK SENDELBACH
FLORENCE	ROBERT FRIBERG	JOSEPH WITYNSKI
GLADSTONE	MARK POLEGA	ERIC BUCKMAN
HARTFORD	BRIAN RHODES	STEVE VOLKERT
HUSTISFORD	TODD TESSMANN	DONALD BAUMANN
INDEPENDENCE	KEVIN SIDLES	VACANT
JEFFERSON	SCOTT ADLER	STEVEN ADAMS
JUNEAU	ROBERT (MAC) AFFELD	ED BROCKNER
KAUKAUNA	JEFFERY FELDT	MIKE PEDERSEN
L'ANSE	ROBERT LA FAVE	AMY LEAF
LAKE MILLS	STEVEN WILKE	PAUL HERMANSON
LODI	CHRIS MICHEL	PETER SCHMITZ
MAQUOKETA	HERBERT (TOM) GAFFIGAN, JR.	BOYD SCHOENTHALER
MENASHA	MELANIE KRAUSE	MARK ALLWARDT
MOUNT HOREB	DAVID HERFEL	CHERYL SUTTER
MUSCODA	CINDA JOHNSON	TROY WARDELL
NEGAUNEE	VACANT	GERRY KOSKI
NEW GLARUS	SCOTT JELLE	BRYAN GADOW
NEW HOLSTEIN	RANDY JAECKELS	PAULA PETHAN
NEW LONDON	STEPHEN THOMPSON	DIANE RUDIE
NEW RICHMOND	MIKE DARROW	RAE ANN AILTS
NORWAY	RAY ANDERSON	MARY POLLARD
OCONOMOWOC	JOE PICKART	SARAH KITSEMBEL
OCONTO FALLS	LISA CHRISTENSEN	GREG KUHN
PLYMOUTH	BRIAN YERGES	JIM PETERSON
PRAIRIE DU SAC	TROY MURPHY	ALAN WILDMAN
PRESTON	STEVE RITENOUR	ROGER KILBURG
REEDSBURG	BRETT SCHUPPNER	DENNIS HORKAN
RICHLAND CENTER	DALE BENDER	RODNEY PERRY
RIVER FALLS	KEVIN WESTHUIS	SCOT SIMPSON
SLINGER	JESSI BALCOM	JAMES HAGGERTY
STOUGHTON	ROBERT KARDASZ	BRIAN HOOPS
STURGEON BAY	JIM STAWICKI	STEWART FETT
SUN PRAIRIE	RICK WICKLUND	DAVE EUCLIDE
TWO RIVERS	KEN KOZAK	GREG BUCKLEY
WATERLOO	BARRY SORENSON	STEVE HEGSTROM
WAUNAKEE	TIM HERLITZKA	DAVE DRESEN
WAUPUN	RANDY POSTHUMA	JARED OOSTERHOUSE
WESTBY	RON JANZEN	DANNY HELGERSON
WHITEHALL	NEAL WOZNEY	ASHLEY SLABY

Dear House and Senate Appropriators:

We are writing in support of the Low Income Home Energy Assistance Program (LIHEAP). We urge you to make LIHEAP a top priority as you draft the FY2018 Labor-HHS-Education Appropriations Bill. Sufficiently funded, LIHEAP serves a vital, life-saving role protecting millions of families from America's cold winters and hot summers. Strong LIHEAP funding is necessary if this program is to continue to allow states and their charitable partners to serve America's most vulnerable households.

LIHEAP is an efficient, effective program. It helps your most vulnerable constituents, including the elderly, the unemployed, families with young children, and the disabled. A large number of LIHEAP recipients are veterans. In FY 2015, 72% of the 6.8 million households receiving LIHEAP assistance had at least one member who was either elderly, disabled, or had a child under the age of five.

LIHEAP is not an entitlement and does not receive increased funding as need increases. Congress must appropriate funding annually. While states set eligibility guidelines, federal statute sets the income maximum at 150 percent of the federal poverty guideline or 60 percent of the state's median income. (For FY2017, 150% of the federal poverty guideline for a family of three is \$30,240, [see source](#).) Most LIHEAP recipients fall well below the maximum thresholds and many LIHEAP-eligible households fail to receive any assistance because of insufficient funds.

In 2015, the national poverty rate was 13.5 percent and 43.1 million Americans lived in poverty, according to U.S. [Census data](#). There's no question that the need for a program like LIHEAP persists. A 2016 [study from the Federal Reserve](#), found that nearly half of American families would struggle to pay for an emergency expense costing \$400. LIHEAP frequently meets those exact short-term emergencies and is the difference between making ends meet or not.

Between FY2009 and FY2016, LIHEAP's appropriation was cut by more than one-third. We know that Congress has made and will continue to make difficult budget decisions – but reducing LIHEAP funding is not the answer. We strongly urge you to support increased LIHEAP funding in FY2018.



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

News Release

Stoughton Utilities

FOR IMMEDIATE RELEASE

March 29, 2017

Contact: Brian Hoops, Assistant Utilities Director

Stoughton Utilities cautions against electric service disconnections as winter moratorium ends

Stoughton Utilities is advising electric and water customers who are behind on their bills to immediately pay any delinquent balances, or make payment arrangements with the utility to avoid service disconnection.

Wisconsin's Winter Emergency Period, often referred to as the moratorium on residential service disconnection, ends April 15. After that date, utilities statewide may begin to disconnect service to customers who are past due on payment of their electric bills for any period of time, including the winter months. Stoughton Utilities plans to disconnect electric service to all severely delinquent accounts on April 19.

“The end of the winter moratorium on disconnections is fast approaching,” said Brian Hoops, Assistant Utilities Director. “Unpaid bills drive up costs for the whole community. It is Stoughton Utilities' goal to do what we can to collect unpaid bills while also attempting to help customers avoid service disruptions for nonpayment.”

The Public Service Commission of Wisconsin established the annual moratorium—from November 1 to April 15—to protect customers from service disconnection during harsh Wisconsin winters.

According to Hoops, more than 2,000 utility customers have overdue bills totaling over \$335,000. Despite these figures, over 75 percent of customers pay their bills on time each month.

“We understand that situations can arise, making it difficult for customers to pay their bills,” said Hoops. “However, to avoid disconnection, we are urging customers to make the appropriate payment arrangements.”

Customers can contact Stoughton Utilities to see if they are eligible to establish a deferred payment arrangement, which can spread payment of delinquent balances out over a period of time. The utility will negotiate payment options with each eligible customer based upon their unique financial situation, however will require a down-payment of at least one-third the past-due balance.

Deferred payment agreements can not be offered to any tenant customer who has defaulted on a deferred payment agreement in the past 12 months, or is responsible for any account arrearages that were placed on any property owner’s tax bill in the City of Stoughton in the past 24 months. Customers with greater than \$100 of account arrearages that are more than 90 days past due or any balance that accrued during the winter moratorium that is more than 80 days past due are also ineligible for a deferred payment agreement.

Various low-income assistance programs are offered to Stoughton Utilities customers through our Commitment to Community program, as well as other area resources. To apply for energy assistance, customers should immediately call 1-866-HEATWIS (432-8947). An appointment is necessary, and assistance payments may take up to six weeks to be received.

Customers can review their account balances and make payments online at stoughtonutilities.com. To make payment arrangements or to explore payment options with the utility, customers can contact Stoughton Utilities at (608) 873-3379 during normal business hours of 8:00 a.m. to 4:00 p.m., Monday through Friday.

###

SERVICE DATE
Mar 29, 2017

PUBLIC SERVICE COMMISSION OF WISCONSIN

Application of the City of Stoughton, Dane County, Wisconsin, as an
Electric Public Utility, for Authority to Adjust Electric Rates

5740-ER-109

FINAL DECISION

This is the Final Decision in the Class 1 proceeding conducted by the Public Service Commission (Commission) on the application of the city of Stoughton Electric Utility (applicant), as an electric public utility, for authority to increase electric rates. The application is APPROVED as conditioned by this Final Decision.

Introduction

The applicant applied to the Commission on September 26, 2016, for authority to increase electric rates by \$458,341, or 3.01 percent. The applicant's last rate change was approved in docket 5740-ER-108 by Final Decision dated August 6, 2015. The applicant cited increased operation and maintenance expenses as the contributing factor(s) for the rate increase request. The final overall electric retail rate change authorized is \$253,631, or 1.71 percent for the test year, which ends December 31, 2017.

Pursuant to due notice, the Commission held a telephonic hearing at Madison and Stoughton Electric Utility on March 2, 2017. The city of Stoughton Electric Utility is the only party to the proceeding. The appearances in this proceeding are listed in Appendix A.

Findings of Fact

1. A reasonable estimate of average net investment rate base for the test year is \$12,616,415.

2. The applicant's present authorized rates for electric utility service will produce total operating revenues of \$14,969,737, which are less than the applicant's total electric revenue requirement of \$15,223,368 for the test year. The applicant's present rates are unreasonable and unjust as they are insufficient to cover the application's test-year operating expense and to provide an opportunity for a reasonable return on utility investments.

3. The rate of return on average net investment rate base at current rates of 2.99 percent is unreasonable and inadequate.

4. A reasonable utility ratemaking capital structure for the test year consists of 71.26 percent municipal equity and 28.74 percent long-term debt.

5. A reasonable return on municipal equity is 6.00 percent.

6. The applicant's composite cost of debt is 2.00 percent. A reasonable return on average net investment rate base that will provide adequate interest coverage is 5.00 percent.

7. Authorizing the applicant to continue to apply a power cost adjustment clause (PCAC) for retail electric service during the test year is reasonable.

8. An increase in the applicant's operating revenues for the test year of \$253,631 is necessary to generate a 5.00 percent return on average net investment rate base and to cover the applicant's total cost of service.

9. The rates and rules in Appendices D and F are just and reasonable and will permit the applicant to earn the necessary revenue requirement for the test year.

10. The annual depreciation rates in Appendix G are reasonable.

11. Energy conservation, renewable resources, or energy priorities listed in Wis. Stat. §§ 1.12 or 196.025 and their combination would not be a cost-effective, technically feasible, or environmentally sound alternative to the rate increase authorized in this Final Decision.

Conclusion of Law

1. The applicant is a municipal electric public utility as defined in Wis. Stat. §§ 66.0801 and 196.01(5).
2. The Commission has authority under Wis. Stat. §§ 196.025, 196.03, 196.20, and 196.37, to authorize the applicant to establish electric rates and rules and annual depreciation rates in accordance with this Final Decision and to determine that the rates and rules in Appendices D, F, and G are reasonable and just as a matter of law.
3. The Commission has authority under Wis. Stat. § 15.02(4) to delegate to the Administrator of the Division of Energy Regulation those functions vested by law as enumerated above. It has delegated the authority to the administrator of the Division of Energy Regulation to issue a Final Decision in this matter.

Opinion

Net Investment Rate Base

The average net investment rate base for the test year is as follows:

Electric Utility Plant	\$25,608,242
Less: Accumulated Depreciation	<u>12,978,932</u>
Net Plant:	\$12,629,310
Plus: Materials and Supplies	131,147
Less: Customer Advances	0
Less: Reg. Liability (Contrib. Accum. Depr.) ¹	<u>144,042</u>
Net Investment Rate Base	\$12,616,415

This rate base is reasonable and just.

¹ Authorized in docket 5-US-105, Investigation of the Accounting Treatment for Account 271, Contributions in Aid of Construction and Modification of the Uniform Systems of Accounts for Municipal Electric, Gas, Water and Sewer Utilities. Supplemental Decision dated September 9, 2004.

Comparative Income Statement

Income statements showing revenues and expenditures estimated for the test year ending December 31, 2017, at present rates and at rates authorized in this Final Decision, are contained in Appendix B. Such income statements are reasonable and just for purposes of this proceeding. Appendix B also shows the percent change in revenues for the various rate classes at present and authorized rates. The applicant's present rates are unreasonable and unjust because they produce inadequate revenues.

The depreciation expense included in the revenue requirement for the test year was computed using the depreciation rates shown in Appendix G. These depreciation rates are effective on the effective date of this Final Decision for computing the depreciation expense on the average investment for each plant account.

Return on Rate Base

It is reasonable to expect the applicant to pay \$11,511,267 to its wholesale supplier, WPPI Energy (WPPI), for purchased power during the test year. During this period, the Commission expects the applicant to sell 141,078,601 kilowatt-hours (kWh) of energy. The Commission expects the applicant's present rates to produce total operating revenues of \$14,969,737 against total operating expenses of \$14,592,678, yielding a net operating income of \$377,059. This net operating income provides a 2.99 percent rate of return on the above determined average net investment rate base of \$12,616,415. Because the present rates produce a low rate of return, they are inadequate.

It is reasonable to estimate the applicant's capital employed in providing public utility service as 71.26 percent municipal equity and 28.74 percent long-term debt. The composite cost of debt capital is 2.00 percent. A return on rate base of 5.00 percent will provide a return on

Docket 5740-ER-109

municipal equity of 6.00 percent and 3.41 times interest coverage. The rate of return of 5.00 percent applied to net investment rate base in determining revenue requirement for purposes of this proceeding is reasonable and just.

Power Cost Adjustment Clause

The applicant's earnings are extremely sensitive to the wholesale rates and fuel adjustment charged by its supplier. Purchased power costs represent approximately 78.9 percent of the applicant's total operating expenses. Fluctuations in the applicant's earnings can result from changes in the wholesale demand-energy rate and fuel adjustment charged by WPPI. In order to mitigate fluctuations in the applicant's earnings due to changes in the cost of purchased power, the Commission authorizes the applicant to continue to apply a Power Cost Adjustment Clause (PCAC) to all of its retail bills. This clause permits increases or decreases in the cost of purchased power to be passed on directly to the customer. The applicant presumably makes no profit from applying this PCAC to its retail bills.

This Final Decision revises the PCAC to reflect the change in the base average cost of power (the "U" factor of the clause) for the test year. The PCAC is applicable each month and shall reflect the difference between monthly and test-period wholesale purchased power costs.

The authorized rates, as shown in Appendix D, reflect the test-year PCAC factor. This average per kWh adjustment to a customer's retail electric bill represents expected changes in the wholesale cost of purchased power for the test year. The cost of purchased power used to compute this average adjustment is based upon rates set by WPPI, which are effective on and after January 1 of the test year.

Rates

The Commission adjusted the applicant's base rates in addition to revising the PCAC. The authorized electric retail rates will increase revenues by approximately \$253,631 annually, or 1.71 percent, resulting in an estimated net operating income of \$630,690 for the test year. This net operating income provides a rate of return of 5.00 percent on the applicant's average net investment rate base of \$12,616,415.

Rate Design

The Commission has a statutory responsibility to establish reasonable and just rates. It is reasonable and just to authorize flat usage and time-of-day (TOD) electric rates. The flat usage rate design provides an appropriate price signal to the consumer in lieu of TOD rates.

Mandatory and/or voluntary TOD rates have been provided for all of the applicant's customers.

The rates in Appendix D generally are based on the cost-of-service principle; that is, rates are designed to recover the costs of providing service to each customer class. Commission staff performed a cost-of-service study (COSS), based on the applicant's costs, to design rates for this proceeding. The Commission recognizes that any COSS is not a precise reflection of cost causality, but rather depends heavily on the accuracy of the data and projections used, and the many judgments of the person performing the study. Selecting final class revenue targets, using the COSS as a guideline and adhering to the general principles of rate-making, is also largely a matter of judgment. Final decisions regarding the increase or decrease for each class, as well as the rate design for each class, were influenced by all of the following factors: Commission staff's COSS; consideration of rates charged to customers of the adjacent large private power company, Wisconsin Power and Light Company; concern regarding rate impact; and the

expressed wishes of the applicant. A summary of the class revenue allocations and impacts produced by the authorized rates appears in Appendix C.

The present and authorized rates, listed by rate class, appear in Appendix D. Appendix B shows that the authorized rates will produce increases in revenues from all classes, for the test year. It is reasonable to make the changes in electric rates as shown in Appendix D that:

1. Roll the test-year PCAC of (\$0.0043) per kWh into base rates;
2. Reflect current operating costs and customer bill impacts; and
3. Increase demand charges to better reflect capacity-related costs in the applicant's purchased power bills.

The authorized rate and rule tariffs appear in Appendices D and F, respectively. A Residential and General Service customer bill impact analysis appears in Appendix E.

Rule Changes

The applicant's current extension rules comply with Wis. Admin. Code §§ PSC 113.1001 to 113.1010. The current extension construction allowances, however, are not based on current costs and, based on data submitted at the hearing, are unreasonable and unjust. The Commission finds it reasonable to revise the applicant's construction allowances as shown in Appendix D.

Reasonableness of Rates and Rules

The rates and rules authorized by this Final Decision will require each class of customers to bear a fair and equitable portion of the applicant's total revenue requirement for the test year ending December 31, 2017. The rate and rule changes authorized by this Final Decision are reasonable and just.

Effective Date

The Commission finds it reasonable for the authorized rate and tariff changes to take effect one day after the date of service provided that these rates and tariff provisions are made available by that date to the public at locations where customer payments are accepted, on the utility's Internet site, or in a form and place that is otherwise readily accessible to the public. If these rate increases and tariff provisions are not made available to the public by that date, it is reasonable to require that they take effect on the date the applicant makes them available at locations where customer payments are accepted, on the utility's Internet site, or in a form and place that is otherwise readily accessible to the public.

Order

1. The authorized rate and tariff changes shall take effect one day after the date of service provided that these rate and tariff provisions are made available by that date to the public at locations where customer payments are accepted, on the utility's Internet site, or in a form and place that is otherwise readily accessible to the public. If these rate increases and tariff provisions are not made available to the public by that day, they shall take effect on the date the applicant makes them available at locations where customer payments are accepted, on the utility's Internet site, or in a form and place that is otherwise readily accessible to the public.

2. The applicant shall revise its existing rates and tariff provisions for electric service, substituting the authorized rate and tariff changes shown in Appendices D and F. These changes shall be in effect until the Commission issues an order establishing new rates and tariff provisions.

3. The annual depreciation rates specified in Appendix G are effective on the effective date of this Final Decision.

4. The applicant shall inform the Commission, in writing within 20 days of the effective date of this Final Decision, of the date that the utility makes the authorized rates and rules effective.

5. Pursuant to Wis. Stat. § 196.19, the utility shall be deemed to have filed with the Commission the rates authorized in this Final Decision when the utility receives completed tariff sheets reflecting this Final Decision from the Commission.

6. Extension applications made before the effective date of this Final Decision and ready to receive service within 60 days following the effective date of this Final Decision shall be completed under the applicant's current rules, rather than the rules specified in Appendix D. "Ready to receive service" means having the premises in a condition to receive permanent service or having temporary service for construction purposes. The applicant shall immediately inform all parties with pending extension requests of the new rules and 60-day limitation.

7. The applicant's PCAC shall be applicable each month and shall reflect the difference between monthly and test-period wholesale purchased power costs.

8. The applicant shall inform each customer of the new rates as required by Wis. Admin. Code § PSC 113.0406(1)(d).

9. This Final Decision takes effect one day after the date of service.

Dated at Madison, Wisconsin, March 29, 2017.

For the Commission:



Jeffrey J. Ripp
Administrator
Division of Energy Regulation

JJR:TAB;jlt:DL: 01501046

Attachments

PUBLIC SERVICE COMMISSION OF WISCONSIN
610 North Whitney Way
P.O. Box 7854
Madison, Wisconsin 53707-7854

**NOTICE OF RIGHTS FOR REHEARING OR JUDICIAL REVIEW, THE
TIMES ALLOWED FOR EACH, AND THE IDENTIFICATION OF THE
PARTY TO BE NAMED AS RESPONDENT**

The following notice is served on you as part of the Commission's written decision. This general notice is for the purpose of ensuring compliance with Wis. Stat. § 227.48(2), and does not constitute a conclusion or admission that any particular party or person is necessarily aggrieved or that any particular decision or order is final or judicially reviewable.

PETITION FOR REHEARING

If this decision is an order following a contested case proceeding as defined in Wis. Stat. § 227.01(3), a person aggrieved by the decision has a right to petition the Commission for rehearing within 20 days of the date of service of this decision, as provided in Wis. Stat. § 227.49. The date of service is shown on the first page. If there is no date on the first page, the date of service is shown immediately above the signature line. The petition for rehearing must be filed with the Public Service Commission of Wisconsin and served on the parties. An appeal of this decision may also be taken directly to circuit court through the filing of a petition for judicial review. It is not necessary to first petition for rehearing.

PETITION FOR JUDICIAL REVIEW

A person aggrieved by this decision has a right to petition for judicial review as provided in Wis. Stat. § 227.53. In a contested case, the petition must be filed in circuit court and served upon the Public Service Commission of Wisconsin within 30 days of the date of service of this decision if there has been no petition for rehearing. If a timely petition for rehearing has been filed, the petition for judicial review must be filed within 30 days of the date of service of the order finally disposing of the petition for rehearing, or within 30 days after the final disposition of the petition for rehearing by operation of law pursuant to Wis. Stat. § 227.49(5), whichever is sooner. If an *untimely* petition for rehearing is filed, the 30-day period to petition for judicial review commences the date the Commission serves its original decision.² The Public Service Commission of Wisconsin must be named as respondent in the petition for judicial review.

If this decision is an order denying rehearing, a person aggrieved who wishes to appeal must seek judicial review rather than rehearing. A second petition for rehearing is not permitted.

Revised: March 27, 2013

² See *Currier v. Wisconsin Dep't of Revenue*, 2006 WI App 12, 288 Wis. 2d 693, 709 N.W.2d 520.

APPENDIX A

In order to comply with Wis. Stat. § 227.47, the following parties who appeared before the agency are considered parties for purposes of review under Wis. Stat. § 227.53.

Public Service Commission of Wisconsin
(Not a party but must be served)
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

Tanner Blair, Program and Policy Analyst
Nick Schuster, Auditor
Division of Energy Regulation

CITY OF STOUGHTON ELECTRIC UTILITY

by
Robert Kardasz, Utilities Director
Jamin Friedl, Finance Manager
Brain Hoops, Assistant Utilities Director
Erin Goldade, Billing and Metering Specialist
Nicole Guld, WPPI Energy Rate Analyst
P.O. Box 383
Stoughton, WI 53589

Other Appearances*

Stoughton Electric Utility
COMPARATIVE INCOME STATEMENT
TEST YEAR ENDED DECEMBER 31, 2017

	Present Rates*	Authorized Rates	Dollar Change	Percent Change
OPERATING REVENUES				
RETAIL SALES OF ELECTRICITY				
Residential Service	7,399,859	\$7,526,672	126,813	1.71%
General Service	1,928,251	\$1,987,472	59,221	3.07%
Small Power Service	1,510,682	\$1,558,427	47,745	3.16%
CP-2	1,153,910	\$1,154,320	410	0.04%
CP-3	2,679,651	\$2,699,076	19,425	0.72%
Lighting Service	133,849	\$133,866	17	0.01%
TOTAL RETAIL SALES OF ELECTRICITY	14,806,202	15,059,833	253,631	1.71%
*/ Reflects a Test Year PCAC of \$0.0000 per kWh.				
OTHER SALES OF ELECTRICITY	-	-	-	0.00%
TOTAL ALL SALES OF ELECTRICITY	14,806,202	15,059,833	253,631	1.71%
OTHER OPERATING REVENUE				
Forfeited Discounts	39,648	39,648		
Miscellaneous Service Revenue	-	-		
Sales of Water & Water Power	-	-		
Rent from Electric Property	27,927	27,927		
Interdepartmental Rents	-	-		
Other Electric Revenues	95,960	95,960		
TOTAL OTHER OPERATING REVENUES	163,535	163,535		
TOTAL ALL OPERATING REVENUES (A)	14,969,737	15,223,368		
OPERATING EXPENSE				
O. & M. EXPENSE				
Production Expense				
Purchased Power Expense (88.28% of O&M)	11,511,267	11,511,267		
Generation Expenses	-	-		
Total Production Expenses	11,511,267	11,511,267		
Trans. & Distrib. Expenses	583,661	583,661		
Customer Account & Sales Expenses	226,343	226,343		
Admin. & General Expenses	717,740	717,740		
TOTAL O. & M. EXPENSE	13,039,010	13,039,010		
DEPRECIATION EXPENSE	960,953	960,953		
AMORTIZATION EXPENSE	-	-		
TAXES OTHER THAN INCOME	592,715	592,715		
INCOME TAXES	-	-		
TOTAL OPERATING EXPENSES (B)	14,592,678	14,592,678		
NET OPERATING INCOME (A-B = C)	377,059	630,690		
AVG. NET INVEST. RATE BASE (D)	12,616,415	12,616,415		
RATE OF RETURN ON RATE BASE(C/ D)	2.99%	5.00%		

Stoughton Electric Utility
ELECTRIC RETAIL REVENUE ALLOCATION SUMMARY
TEST YEAR ENDED DECEMBER 31, 2017

RATE CLASS		TEST YEAR KWH	PRESENT REVENUES	PROPOSED		PSC STAFF COSS PERCENT INCREASE	
				REVENUES	DOLLAR INCREASE		PERCENT INCREASE
RG-1	Residential Service	63,387,979	\$7,389,721	\$7,516,199	\$126,478	1.71%	1.37%
RG-2	Residential Optional Time-of-Day Service	96,502	\$10,138	\$10,473	\$335	3.30%	13.53%
TOTAL RESIDENTIAL		63,484,481	\$7,399,859	\$7,526,672	\$126,813	1.71%	1.39%
GS-1	General Service	17,001,330	\$1,891,572	\$1,950,619	\$59,047	3.12%	5.57%
GS-2	General Service Optional Time-of-Day	351,008	\$36,679	\$36,853	\$174	0.47%	0.72%
TOTAL GENERAL SERVICE		17,352,338	\$1,928,251	\$1,987,472	\$59,221	3.07%	5.48%
CP-1	Small Power Service (60-200 kW)	12,825,205	\$1,294,708	\$1,335,390	\$40,682	3.14%	5.67%
CP-1 TOU	Small Power Optional Time-of-Day Service (60-200 kW)	2,309,570	\$215,974	\$223,037	\$7,063	3.27%	7.90%
TOTAL SMALL COMMERCIAL & INDUSTRIAL		15,134,775	\$1,510,682	\$1,558,427	\$47,745	3.16%	5.98%
CP-2	Large Power Service (200-700 kW)	13,436,830	\$1,153,910	\$1,154,320	\$410	0.04%	-2.93%
CP-3	Industrial Power Service (>700 kW)	30,734,177	\$2,679,651	\$2,699,076	\$19,425	0.72%	0.46%
TOTAL LARGE COMMERCIAL & INDUSTRIAL		44,171,007	\$3,833,561	\$3,853,396	\$19,835	0.52%	-0.56%
MS-1	Street Lighting Service	936,000	\$133,849	\$133,866	\$17	0.01%	-17.67%
TOTAL LIGHTING SERVICE		936,000	\$133,849	\$133,866	\$17	0.01%	-17.67%
TOTAL ELECTRIC RETAIL REVENUE		141,078,601	\$14,806,202	\$15,059,833	\$253,631	1.71%	1.71%
Other Revenue			\$163,535	\$163,535	\$0	0.00%	
TOTAL ELECTRIC UTILITY REVENUE			\$14,969,737	\$15,223,368	\$253,631	1.69%	

Stoughton Electric Utility
 PRESENT AND AUTHORIZED RATES
 TEST YEAR ENDED DECEMBER 31, 2017

Type of Service	Present Rates	Authorized Rates
Residential Service Rg-1		
Customer Charge	Single Phase \$ 10.00 per month	\$ 12.00 per month
	Three Phase \$ 17.00 per month	\$ 19.00 per month
Energy Charge	\$ 0.1064 per kWh	\$ 0.1012 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh
Residential Optional Time-of-Day Service Rg-2		
Customer Charge	Single Phase \$ 10.00 per month	\$ 12.00 per month
	Three Phase \$ 17.00 per month	\$ 19.00 per month
Energy Charge	On-Peak kWh \$ 0.1910 per kWh	\$ 0.1842 per kWh
	Off-Peak kWh \$ 0.0525 per kWh	\$ 0.0500 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh
General Service Gs-1		
Customer Charge	Single Phase \$ 14.00 per month	\$ 16.00 per month
	Three Phase \$ 20.00 per month	\$ 22.00 per month
Energy Charge	\$ 0.1064 per kWh	\$ 0.1044 per kWh
PCAC	\$ (0.0043) per kWh	per kWh
General Service Optional Time-of-Day Gs-2		
Customer Charge	Single Phase \$ 14.00 per month	\$ 16.00 per month
	Three Phase \$ 20.00 per month	\$ 22.00 per month
Energy Charge	On-Peak kWh \$ 0.1910 per kWh	\$ 0.1842 per kWh
	Off-Peak kWh \$ 0.0525 per kWh	\$ 0.0500 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh

Stoughton Electric Utility
PRESENT AND AUTHORIZED RATES
TEST YEAR ENDED DECEMBER 31, 2017

Type of Service	Present Rates	Authorized Rates
Small Power Service CP-1 (60-200 kW)		
Customer Charge	\$ 50.00 per month	\$ 50.00 per month
Distribution Demand Charge	\$ 1.50 per kW	\$ 1.50 per kW
Monthly Billed Demand Charge	\$ 7.50 per kW	\$ 8.00 per kW
Energy Charge	\$ 0.0728 per kWh	\$ 0.0702 per kWh
Rate Limiter	\$ 0.1277 per kWh	\$ 0.1253 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh
Primary Voltage Discount		
All Voltage Levels (1)	-2.00% per \$	-2.00% per \$
Transformer Ownership Discount on Distribution Demand		
All Voltage Levels (A)	\$ (0.25) per kW	\$ (0.25) per kW
Small Power Optional Time-of-Day Service CP-1 TOU (60-200 kW)		
Customer Charge	\$ 50.00 per month	\$ 50.00 per month
Distribution Demand Charge	\$ 1.50 per kW	\$ 1.50 per kW
Monthly Billed Demand Charge	\$ 7.50 per kW	\$ 8.00 per kW
Energy Charge		
	On-Peak kWh \$ 0.0891 per kWh	\$ 0.0865 per kWh
	Off-Peak kWh \$ 0.0591 per kWh	\$ 0.0564 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh
Primary Voltage Discount		
All Voltage Levels (1)	-2.00% per \$	-2.00% per \$
Transformer Ownership Discount on Distribution Demand		
All Voltage Levels (A)	\$ (0.25) per kW	\$ (0.25) per kW
Large Power Service CP-2 (200-700 kW)		
Customer Charge	\$ 175.00 per month	\$ 175.00 per month
Distribution Demand Charge	\$ 1.75 per kW	\$ 1.75 per kW
Monthly Billed Demand Charge	\$ 9.25 per kW	\$ 9.75 per kW
Energy Charge		
	On-Peak kWh \$ 0.0795 per kWh	\$ 0.0756 per kWh
	Off-Peak kWh \$ 0.0503 per kWh	\$ 0.0436 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh
Primary Voltage Discount		
All Voltage Levels (1)	-2.00% per \$	-2.00% per \$
Transformer Ownership Discount on Distribution Demand		
All Voltage Levels (A)	\$ (0.25) per kW	\$ (0.25) per kW

Stoughton Electric Utility
PRESENT AND AUTHORIZED RATES
TEST YEAR ENDED DECEMBER 31, 2017

Type of Service	Present Rates	Authorized Rates
Industrial Power Service CP-3 (>700 kW)		
Customer Charge	\$ 250.00 per month	\$ 250.00 per month
Distribution Demand Charge	\$ 2.00 per kW	\$ 2.00 per kW
Monthly Billed Demand Charge	\$ 9.75 per kW	\$ 10.25 per kW
Energy Charge		
	On-Peak kWh \$ 0.0761 per kWh	\$ 0.0710 per kWh
	Off-Peak kWh \$ 0.0472 per kWh	\$ 0.0421 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh
Primary Voltage Discount		
All Voltage Levels (1)	-2.00% per \$	-2.00% per \$
Transformer Ownership Discount on Distribution Demand		
All Voltage Levels (A)	\$ (0.25) per kW	\$ (0.25) per kW
Street Lighting Service MS-1		
INVESTMENT CHARGE		
Overhead		
150 W HPS	\$7.50 per month	\$7.00 per month
250 W HPS	\$8.00 per month	\$7.50 per month
250 W MV ₁	\$4.00 per month	\$3.50 per month
250 W HPS ₁	\$4.00 per month	\$3.50 per month
150 W HPS ₂	\$3.50 per month	\$3.00 per month
100 W HPS Equivalent LED	\$4.00 per month	\$3.50 per month
150 W HPS Equivalent LED	\$5.00 per month	\$4.50 per month
250 W HPS Equivalent LED	\$6.00 per month	\$5.50 per month
400 W HPS Equivalent LED	\$8.00 per month	\$7.50 per month
Pole Charges		
Wood - Distributed Pole-3	\$1.50 per month	\$2.00 per month
Wood - Stand Alone Pole	\$3.50 per month	\$4.00 per month
Contributed Poles-4	\$3.50 per month	\$4.00 per month
Fiberglass Poles	\$3.50 per month	\$4.00 per month
Metal Poles	\$3.50 per month	\$4.00 per month
Concrete Poles	\$8.00 per month	\$8.00 per month
Energy Charge	\$ 0.0520 per kWh	\$ 0.0505 per kWh
PCAC	\$ (0.0043) per kWh	\$ - per kWh

Stoughton Electric Utility
PRESENT AND AUTHORIZED RATES
TEST YEAR ENDED DECEMBER 31, 2017

Type of Service	Present Rates	Authorized Rates
AVERAGE BASE COST OF POWER	\$ 0.0859 per kWh	\$ 0.0816 per kWh
EMBEDDED COST ALLOWANCES		
Rg-1 & Rg-2, \$/Customer	\$ 457.00	\$ 460.00
Gs-1 & Gs-2, \$/Customer	\$1,012.00	\$ 1,100.00
Cp-1 & Cp-1 TOD, \$/kW-mo	\$ 139.00	\$ 141.00
Cp-2, \$/kW-mo	\$ 137.00	\$ 92.00
Cp-3, \$/kW-mo	\$ 78.00	\$ 53.00
Ms-1, \$/Lamp	\$ 55.00	\$ 39.00
NSF CHARGE	\$ 25.00	\$ 25.00
RECONNECTION CHARGES		
During Office Hours	\$ 40.00	\$ 40.00
After Office Hours	\$ 80.00	\$ 80.00

Stoughton Electric Utility
 DETAILED BILL IMPACT ANALYSIS: RESIDENTIAL & GENERAL SERVICE
 TEST YEAR ENDED DECEMBER 31, 2017

Residential Service Rg-1: Single Phase

Monthly kWh	Monthly Bills		Authorized Increase	
	Current Rates	Proposed Rates	\$ Amount	% Change
100	\$20.21	\$22.12	\$1.91	9.45%
500	\$61.05	\$62.60	\$1.55	2.54%
750	\$86.58	\$87.90	\$1.33	1.53%
1,000	\$112.10	\$113.20	\$1.10	0.98%
1,500	\$163.15	\$163.80	\$0.65	0.40%
2,500	\$265.25	\$265.00	-\$0.25	-0.09%
4,000	\$418.40	\$416.80	-\$1.60	-0.38%
691	\$80.53	\$81.91	\$1.38	1.71%

Residential Service Rg-1: Three Phase

Monthly kWh	Monthly Bills		Authorized Increase	
	Current Rates	Proposed Rates	\$ Amount	% Change
100	\$27.21	\$29.12	\$1.91	7.02%
500	\$68.05	\$69.60	\$1.55	2.28%
750	\$93.58	\$94.90	\$1.33	1.42%
1,000	\$119.10	\$120.20	\$1.10	0.92%
1,500	\$170.15	\$170.80	\$0.65	0.38%
2,500	\$272.25	\$272.00	-\$0.25	-0.09%
4,000	\$425.40	\$423.80	-\$1.60	-0.38%
691	\$87.53	\$88.91	\$1.38	1.57%

General Service Gs-1: Single Phase

Monthly kWh	Monthly Bills		Authorized Increase	
	Current Rates	Proposed Rates	\$ Amount	% Change
500	\$65.05	\$68.20	\$3.15	4.84%
1,000	\$116.10	\$120.40	\$4.30	3.70%
2,000	\$218.20	\$224.80	\$6.60	3.02%
3,000	\$320.30	\$329.20	\$8.90	2.78%
4,000	\$422.40	\$433.60	\$11.20	2.65%
5,000	\$524.50	\$538.00	\$13.50	2.57%
6,000	\$626.60	\$642.40	\$15.80	2.52%
1,705	\$188.07	\$193.99	\$5.92	3.15%

General Service Gs-1: Three Phase

Monthly kWh	Monthly Bills		Authorized Increase	
	Current Rates	Proposed Rates	\$ Amount	% Change

Stoughton Electric Utility
 DETAILED BILL IMPACT ANALYSIS: RESIDENTIAL & GENERAL SERVICE
 TEST YEAR ENDED DECEMBER 31, 2017

500	\$71.05	\$74.20	\$3.15	4.43%
1,000	\$122.10	\$126.40	\$4.30	3.52%
2,000	\$224.20	\$230.80	\$6.60	2.94%
3,000	\$326.30	\$335.20	\$8.90	2.73%
4,000	\$428.40	\$439.60	\$11.20	2.61%
5,000	\$530.50	\$544.00	\$13.50	2.54%
6,000	\$632.60	\$648.40	\$15.80	2.50%
1,705	\$194.07	\$199.99	\$5.92	3.05%

* Values in bold represent class average usage

Authorized Rate and Rule Tariff Sheets

STOUGHTON ELECTRIC UTILITY

Power Cost Adjustment Clause

All metered rates shall be subject to a positive or negative power cost adjustment charge equivalent to the amount by which the current cost of power (per kilowatt-hour of sales) is greater or lesser than the base cost of power purchased (per kilowatt-hour of sales).

The current cost per kilowatt-hour of energy billed is equal to the cost of power purchased for the most recent month, divided by the kilowatt-hours of energy sold. The monthly adjustment (rounded to the nearest one one-hundredth of a cent) is equal to the current cost less the base cost. The base cost of power (U) is \$0.0816 per kilowatt-hour.

Periodic changes shall be made to maintain the proper relative structure of the rates and to insure that power costs are being equitably recovered from the various rate classes. If the monthly adjustment (A) exceeds \$0.0150 per kilowatt-hour, for more than three times in a 12-month period (current plus preceding 11-months), the company shall notify the Public Service Commission of Wisconsin separate from its monthly PCAC report of the need to evaluate a change in rates to incorporate a portion of the power cost adjustment into the base rates.

For purposes of calculating the power cost adjustment charge, the following formula shall be used:

$$A = \frac{C}{S} - U$$

- A is the power cost adjustment rate in dollars per kilowatt-hour rounded to four decimal places applied on a per kilowatt-hour basis to all metered sales of electricity.
- S is the total kilowatt-hours sold during the most recent month.
- U is the base cost of power, which equals the average cost of power purchased per kilowatt-hour of sales for the test year period. This figure remains constant in each subsequent monthly calculation at \$0.0816 per kilowatt-hour until otherwise changed by the Public Service Commission of Wisconsin.
- C is the cost of power purchased in dollars in the most recent month. Cost of power purchased for calculation of C are the monthly amounts which would be recorded in the following accounts of the Uniform System of Accounts:

Class A & B utilities	Accounts 555
Class C utilities	Accounts 545

RATE FILE

Sheet No. 1 of 1

Public Service Commission of Wisconsin

Schedule No. Rg-1

Amendment No. EXH

STOUGHTON ELECTRIC UTILITY

Residential Service

Application: This rate will be applied to residential single-phase and three phase customers for ordinary household purposes. Single-phase motors may not exceed 5 horsepower individual-rated capacity without utility permission.

Customers who do not meet these criteria will be served under the applicable rate.

Customer Charge: Single-phase: \$12.00 per month.
 Three-phase: \$19.00 per month.

Energy Charge: \$0.1012 per kilowatt-hour (kWh).

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Minimum Monthly Bill: The minimum monthly bill shall be the customer charge.

Prompt Payment of Bills: A charge of no more than 1 percent per month will be added to bills not paid within 20 days from date of issuance. The late payment charge shall be applied to the total unpaid balance for utility service, including unpaid payment charges. This charge is applicable to all customers.

EFFECTIVE:
PSCW AUTHORIZATION:

STOUGHTON ELECTRIC UTILITY

Residential Service – Optional Time of Day

Application: This rate schedule is optional to all Rg-1, Residential Service customers. Customers that wish to be served on this rate schedule must apply to the utility for service. Once an optional customer begins service on this rate schedule, the customer shall remain on the rate for a minimum of one year. Any customer choosing to be served on this rate schedule waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule than under this rate schedule.

Once on this rate, the utility will review billing annually according to Wis. Admin. Code ch. PSC 113.

Customer Charge: Single-phase: \$12.00 per month.
 Three-phase: \$19.00 per month.

Energy Charge: On-peak: \$0.1842 per kilowatt-hour (kWh).
 Off-peak: \$0.0500 per kWh.

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Pricing Periods: On-peak: The three on-peak periods available are:
 7:00 a.m. to 7:00 p.m.
 8:00 a.m. to 8:00 p.m.
 9:00 a.m. to 9:00 p.m.
 Monday through Friday, excluding holidays, specified below.

 Off-peak: All times not specified as on-peak including all day
 Saturday and Sunday, and the following holidays: New
 Year’s Day, Memorial Day, Independence Day, Labor Day,
 Thanksgiving Day, and Christmas Day, or the day
 designated to be celebrated as such.

Prompt Payment of Bills: Same as Rg-1.

Minimum Monthly Bill: The minimum monthly bill shall be the customer charge.

Moving Provision: If a customer moves within the utility’s service territory, both the original and the new customer have the option to retain time-of-day billing or to transfer to the Residential Service rate, Rg-1, at no cost to the customer.

Joint Residential/Commercial Customers: A customer occupying a building or apartment for residential and commercial purposes jointly shall be billed on another rate which is determined based on the customer’s load.

EFFECTIVE:
PSCW AUTHORIZATION:

Public Service Commission of Wisconsin

STOUGHTON ELECTRIC UTILITY

General Service

Application: This rate will be applied to single and three-phase customers. This includes commercial, institutional, government, farm, and other customers. The monthly Maximum Measured Demand of customers served on this rate shall not exceed 60 kilowatts for three or more months in a consecutive 12-month period.

The utility shall install demand energy meters for Gs-1 customers with energy usage in excess of 15,000 kWh per month for three or more months in a 12-month period. Gs-1 customers shall be transferred into the appropriate demand class as soon as the application conditions of that class have been met.

Gs-1 customers with a minimum energy usage of 15,000 kWh per month and a Load Factor greater than or equal to 45 percent for three or more months in a consecutive 12-month period shall have the option of transferring to the Cp-1 rate schedule.

Once a customer begins service on a rate schedule on an optional basis, the customer shall remain on that rate for a minimum of one year. Any customer choosing to be served on a rate schedule on an optional basis waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule.

Customer Charge: Single-phase: \$16.00 per month.
 Three-phase: \$22.00 per month.

Energy Charge: \$0.1044 per kilowatt-hour (kWh).

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Minimum Monthly Bill: The minimum monthly bill shall be the customer charge.

Prompt Payment of Bills: Same as Rg-1.

Farm Customer: Defined as a person or organization using electric service for the operation of an individual farm, or for residential use in living quarters on the farm occupied by persons principally engaged in the operation of the farm and by their families. A farm is a tract of land used to raise or produce agricultural and dairy products, for raising livestock, poultry, game, fur-bearing animals, or for floriculture, or similar purposes, and embracing not less than 3 acres; or, if small, where the principal income of the operator is derived therefrom. (Otherwise, the service used for residential purposes is classed as residential, and that used for commercial is classed as general service.)

(Continued on Next Page)

STOUGHTON ELECTRIC UTILITY

General Service

Determination of Maximum Measured Demand: The Maximum Measured Demand in any month shall be that demand in kilowatts necessary to supply the average kilowatt-hours in 15 consecutive minutes of greatest consumption of electricity during each month. Such Maximum Measured Demand shall be determined from readings of permanently installed meters or, at the option of the utility, by any standard methods or meters. Said demand meter shall be reset to zero when the meter is read each month.

Load Factor: Is defined in the following formula, where kWh = Monthly Energy usage and kW = Maximum Measured Demand and 730 represents the average number of hours in a month.

$$\text{Load Factor} = \frac{kWh}{(kW * 730)}$$

STOUGHTON ELECTRIC UTILITY

General Service – Optional Time of Day

Application: This rate schedule is optional to all Gs-1, General Service customers. Customers that wish to be served on this rate schedule must apply to the utility for service. Once an optional customer begins service on this rate schedule, the customer shall remain on the rate for a minimum of one year. Any customer choosing to be served on this rate schedule waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule than under this rate schedule.

Once on this rate, the utility will review billing annually according to Wis. Admin. Code ch. PSC 113.

The utility shall install demand energy meters for Gs-2 customers with energy usage in excess of 15,000 kWh per month for three or more months in a 12-month period. Gs-2 customers shall be transferred into the appropriate demand class as soon as the application conditions of that class have been met.

Gs-2 customers with a minimum energy usage of 15,000 kWh per month and a Load Factor greater than or equal to 45 percent for three or more months in a consecutive 12-month period shall have the option of transferring to the Cp-1 TOD rate schedule.

Once a customer begins service on a rate schedule on an optional basis, the customer shall remain on that rate for a minimum of one year. Any customer choosing to be served on a rate schedule on an optional basis waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule.

Customer Charge: Single-phase: \$16.00 per month.
 Three-phase: \$22.00 per month.

Energy Charge: On-peak: \$0.1842 per kilowatt-hour (kWh).
 Off-peak: \$0.0500 per kWh.

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Pricing Periods: On-peak: The three on-peak periods available are:
 7:00 a.m. to 7:00 p.m.
 8:00 a.m. to 8:00 p.m.
 9:00 a.m. to 9:00 p.m.
 Monday through Friday, excluding holidays, specified below.

(Continued on Next Page)

STOUGHTON ELECTRIC UTILITY

General Service – Optional Time of Day

Off-peak: All times not specified as on-peak including all day Saturday and Sunday, and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, or the day designated to be celebrated as such.

Prompt Payment of Bills: Same as Rg-1.

Minimum Monthly Bill: The minimum monthly bill shall be the customer charge.

Moving Provision: If a customer moves within the utility's service territory, both the original and the new customer have the option to retain time-of-day billing or to transfer to the General Service rate, Gs-1, at no cost to the customer.

Joint Residential/Commercial Customers: A customer occupying a building or apartment for residential and commercial purposes jointly shall be billed on another rate which is determined based on the customer's load.

Determination of Maximum Measured Demand: The Maximum Measured Demand in any month shall be that demand in kilowatts necessary to supply the average kilowatt-hours in 15 consecutive minutes of greatest consumption of electricity during each month. Such Maximum Measured Demand shall be determined from readings of permanently installed meters or, at the option of the utility, by any standard methods or meters. Said demand meter shall be reset to zero when the meter is read each month.

Load Factor: Is defined in the following formula, where kWh = Monthly Energy usage and kW = Maximum Measured Demand and 730 represents the average number of hours in a month.

$$\text{Load Factor} = \frac{kWh}{(kW * 730)}$$

Public Service Commission of Wisconsin

STOUGHTON ELECTRIC UTILITY

Small Power Service

Application: This rate will be applied to customers for all types of service if their monthly Maximum Measured Demand is in excess of 60 kilowatts (kW) per month for three or more months in a consecutive 12-month period, but not greater than 200 kW per month for three or more months in a consecutive 12-month period.

Customers billed on this rate shall continue to be billed on this rate until their monthly Maximum Measured Demand is less than 60 kW per month for 12 consecutive months. The utility shall offer customers billed on this rate a one-time option to continue to be billed on this rate for another 12 months if their monthly Maximum Measured Demand is less than 60 kW per month. However, this option shall be offered with the provision that the customer waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule than under this rate schedule.

Once a customer begins service on a rate schedule on an optional basis, the customer shall remain on that rate for a minimum of one year. Any customer choosing to be served on a rate schedule on an optional basis waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule.

Customer Charge: \$50.00 per month.

Distribution Demand Charge: \$1.50 per kW of distribution demand.

Demand Charge: \$8.00 per kW of billed demand.

Energy Charge: \$0.0702 per kilowatt-hour (kWh).

Energy Limiter: \$0.1253 per kWh

For each month, the customer shall be billed the lesser of 1) the amount for the Energy Limiter or 2) the amount for the Energy Charge plus the amount for the Demand Charge. This provision does not affect the billing of the customer charge, the distribution demand charge, and the PCAC, which are also billed each month.

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Prompt Payment of Bills: Same as Rg-1.

Minimum Monthly Bill: The minimum monthly bill shall be equal to the customer charge, plus the distribution demand charge.

(Continued on Next Page)

STOUGHTON ELECTRIC UTILITY

Small Power Service

Discounts: The monthly bill for service will be subject to the following discounts applied in the sequence listed below.

Primary Metering Discount: Customers metered on the primary side of the transformer shall be given a 2.00 percent discount on the monthly energy charge, distribution demand charge, and demand charge. The PCAC and the monthly customer charge will not be eligible for the primary metering discount.

Transformer Ownership Discount: Customers who own and maintain their own transformers or substations shall be given a credit of \$0.25 per kW of distribution demand. Customer-owned substation equipment shall be operated and maintained by the customer. Support and substation equipment is subject to utility inspection and approval.

Determination of Maximum Measured Demand: The Maximum Measured Demand in any month shall be that demand in kilowatts necessary to supply the average kilowatt-hours in 15 consecutive minutes of greatest consumption of electricity during each month. Such Maximum Measured Demand shall be determined from readings of permanently installed meters or, at the option of the utility, by any standard methods or meters. Said demand meter shall be reset to zero when the meter is read each month.

Determination of Distribution Demand: The Distribution Demand shall be the highest monthly Maximum Measured Demand occurring in the current month or preceding 11-month period.

Determination of Billed Demand: The Billed Demand shall be the Maximum Measured Demand.

Load Factor: Is defined in the following formula, where kWh = Monthly Energy usage and kW = Maximum Measured Demand and 730 represents the average number of hours in a month.

$$\text{Load Factor} = \frac{kWh}{(kW*730)}$$

STOUGHTON ELECTRIC UTILITY

Small Power Service – Optional Time of Day Service

Application: This rate schedule is optional to all Cp-1 customers. Customers that wish to be served on this rate schedule must apply to the utility for service. Once an optional customer begins service on this rate schedule, the customer shall remain on the rate for a minimum of one year. Any customer choosing to be served on this rate schedule waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule than under this rate schedule.

Once on this rate, the utility will review billing annually according to Wis. Admin. Code ch. PSC 113.

Customer Charge: \$50.00 per month.

Distribution Demand Charge: \$1.50 demand per kW of distribution demand.

Demand Charge: \$8.00 per kW of on-peak billed demand.

Energy Charge: On-peak: \$0.0865 per kilowatt-hour (kWh).
Off-peak: \$0.0564 per kWh.

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Prompt Payment of Bills: Same as Rg-1.

Minimum Monthly Bill: The minimum monthly bill shall be equal to the customer charge, plus the distribution demand charge.

Pricing Periods:

On-peak: 8:00 a.m. to 8:00 p.m., Monday through Friday, excluding holidays, specified below.

Off-peak: All times not specified as on-peak including all day Saturday and Sunday, and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, or the day designated to be celebrated as such.

(Continued on Next Page)

STOUGHTON ELECTRIC UTILITY

Small Power Service – Optional Time of Day Service

Discounts: The monthly bill for service will be subject to the following discounts applied in the sequence listed below.

Primary Metering Discount: Customers metered on the primary side of the transformer shall be given a 2.00 percent discount on the monthly energy charge, distribution demand charge, and demand charge. The PCAC and the monthly customer charge will not be eligible for the primary metering discount.

Transformer Ownership Discount: Customers who own and maintain their own transformers or substations shall be given a credit of \$0.25 per kW of distribution demand. Customer-owned substation equipment shall be operated and maintained by the customer. Support and substation equipment is subject to utility inspection and approval.

Determination of Maximum Measured Demand and On-peak Maximum Demand: The Maximum Measured Demand in any month shall be that demand in kilowatts necessary to supply the average kilowatt-hours in 15 consecutive minutes of greatest consumption of electricity during each month. Such Maximum Measured Demand shall be determined from readings of permanently installed meters or, at the option of the utility, by any standard methods or meters. Said demand meter shall be reset to zero when the meter is read each month. The Maximum Measured Demand that occurs during the On-peak period shall be the On-peak Maximum Demand.

Determination of Distribution Demand: The Distribution Demand shall be the highest monthly Maximum Measured Demand occurring in the current month or preceding 11-month period.

Determination of On-peak Billed Demand: The Maximum Measured Demand that occurs during the On-peak period shall be on On-Peak Billed Demand.

STOUGHTON ELECTRIC UTILITY

Large Power Time of Day Service

Application: This rate will be applied to customers for all types of service, if their monthly Maximum Measured Demand is in excess of 200 kilowatts (kW) per month for three or more months in a consecutive 12-month period, but not greater than 700 kW per month for three or more months in a consecutive 12-month period.

Customers billed on this rate shall continue to be billed on this rate until their monthly Maximum Measured Demand is less than 200 kW per month for 12 consecutive months. The utility shall offer customers billed on this rate a one-time option to continue to be billed on this rate for another 12 months if their monthly Maximum Measured Demand is less than 200 kW per month. However, this option shall be offered with the provision that the customer waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule than under this rate schedule.

Customer Charge: \$175.00 per month.

Distribution Demand Charge: \$1.75 per kW of distribution demand.

Demand Charge: \$9.75 per kW of on-peak billed demand.

Energy Charge: On-peak: \$0.0756 per kilowatt-hour (kWh).
Off-peak: \$0.0436 per kWh.

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Minimum Monthly Bill: The minimum monthly bill shall be equal to the customer charge, plus the distribution demand charge.

Prompt Payment of Bills: Same as Rg-1.

Pricing Periods:

On-peak: 8:00 a.m. to 8:00 p.m., Monday through Friday, excluding holidays, specified below.

Off-peak: All times not specified as on-peak including all day Saturday and Sunday, and the following holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, or the day designated to be celebrated as such.

(Continued on Next Page)

STOUGHTON ELECTRIC UTILITY

Large Power Time of Day Service

Discounts: The monthly bill for service will be subject to the following discounts applied in the sequence listed below.

Primary Metering Discount: Customers metered on the primary side of the transformer shall be given a 2.00 percent discount on the monthly energy charge, distribution demand charge, and demand charge. The PCAC and the monthly customer charge will not be eligible for the primary metering discount.

Transformer Ownership Discount: Customers who own and maintain their own transformers or substations shall be given a credit of \$0.25 per kW of distribution demand. Customer-owned substation equipment shall be operated and maintained by the customer. Support and substation equipment is subject to utility inspection and approval.

Determination of Maximum Measured Demand and On-peak Maximum Demand: The Maximum Measured Demand in any month shall be that demand in kilowatts necessary to supply the average kilowatt-hours in 15 consecutive minutes of greatest consumption of electricity during each month. Such Maximum Measured Demand shall be determined from readings of permanently installed meters or, at the option of the utility, by any standard methods or meters. Said demand meter shall be reset to zero when the meter is read each month. The Maximum Measured Demand that occurs during the On-peak period shall be the On-peak Maximum Demand.

Determination of Distribution Demand: The Distribution Demand shall be the highest monthly Maximum Measured Demand occurring in the current month or preceding 11-month period.

Determination of On-peak Billed Demand: On-peak Billed Demand shall be the On-peak Maximum Demand.

STOUGHTON ELECTRIC UTILITY

Industrial Power Time-of-Day Service

Application: This rate will be applied to customers for all types of service if their monthly Maximum Measured Demand is in excess of 700 kilowatts (kW) per month for three or more months in a consecutive 12-month period.

Customers billed on this rate shall continue to be billed on this rate until their monthly Maximum Measured Demand is less than 700 kW per month for 12 consecutive months. The utility shall offer customers billed on this rate a one-time option to continue to be billed on this rate for another 12 months if their monthly Maximum Measured Demand is less than 700 kW per month. However, this option shall be offered with the provision that the customer waives all rights to billing adjustments arising from a claim that the bill for service would be less on another rate schedule than under this rate schedule.

Customer Charge: \$250.00 per month.

Distribution Demand Charge: \$2.00 per kW of distribution demand.

Demand Charge: \$10.25 per kW of on-peak billed demand.

Energy Charge: On-peak: \$0.0710 per kilowatt-hour (kWh).
Off-peak: \$0.0421 per kWh.

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Minimum Monthly Bill: The minimum monthly bill shall be equal to the customer charge, plus the distribution demand charge.

Prompt Payment of Bills: Same as Rg-1.

Pricing Periods:

On-peak: 8:00 a.m. to 8:00 p.m., Monday through Friday, excluding Holidays, specified below.

Off-peak: All times not specified as on-peak including all day Saturday and Sunday, and the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, or the day nationally designated to be celebrated as such.

(Continued on Next Page)

STOUGHTON ELECTRIC UTILITY

Industrial Power Time-of-Day Service

Discounts: The monthly bill for service will be subject to the following discounts applied in the sequence listed below:

Primary Metering Discount: Customers metered on the primary side of the transformer shall be given a 2.00 percent discount on the monthly energy charge, distribution demand charge, and demand charge. The PCAC and the monthly customer charge will not be eligible for the primary metering discount.

Transformer Ownership Discount: Customers who own and maintain their own transformers or substations shall be given a credit of \$0.25 per kW of distribution demand. Customer-owned substation equipment shall be operated and maintained by the customer. Support and substation equipment is subject to utility inspection and approval.

Determination of Maximum Measured Demand and On-peak Maximum Demand: The Maximum Measured Demand in any month shall be that demand in kilowatts necessary to supply the average kilowatt-hours in 15 consecutive minutes of greatest consumption of electricity during each month. Such Maximum Measured Demand shall be determined from readings of permanently installed meters or, at the option of the utility, by any standard methods or meters. Said demand meter shall be reset to zero when the meter is read each month. The Maximum Measured Demand that occurs during the On-peak period shall be the On-peak Maximum Demand.

Determination of Distribution Demand: The Distribution Demand shall be the highest monthly Maximum Measured Demand occurring in the current month or preceding 11-month period.

Determination of On-peak Billed Demand: On-peak Billed Demand shall be the On-peak Maximum Demand.

Public Service Commission of Wisconsin

STOUGHTON ELECTRIC UTILITY

Street Lighting Service

Application: This schedule will be applied to municipal street lighting. The utility will furnish, install, and maintain street lighting units.

This rate schedule is closed to new mercury vapor lights.

Investment charge:

Overhead:

150 W HPS	\$7.00 per lamp per month
250 W HPS	\$7.50 per lamp per month
250 W MV ₁	\$3.50 per lamp per month
250 W HPS ₁	\$3.50 per lamp per month
150 W HPS ₂	\$3.00 per lamp per month
100 W HPS Equivalent LED	\$3.50 per lamp per month
150 W HPS Equivalent LED	\$4.50 per lamp per month
250 W HPS Equivalent LED	\$5.50 per lamp per month
400 W HPS Equivalent LED	\$7.50 per lamp per month

Pole Charges:

Wood – Distribution Pole ₃	\$2.00 per pole per month
Wood – Stand-Alone Pole	\$4.00 per pole per month
Contributed Pole ₄	\$4.00 per pole per month
Fiberglass Pole	\$4.00 per pole per month
Metal Pole	\$4.00 per pole per month
Concrete Pole	\$8.00 per pole per month

1. Partly Contributed Lighting Facilities – Customer contributes 50 percent
2. Fully Contributed Lighting Facilities – Customer contributes 100 percent
3. Pole cost equal to 25 percent of distribution pole cost
4. Developer Contributions for Street Lighting Poles – Customer contributes cost of concrete pole minus cost of stand-alone wood pole

Energy Charge: \$0.0505 per kilowatt-hour (kWh).

Power Cost Adjustment Clause: Charge per all kWh varies monthly. See schedule PCAC.

Prompt Payment of Bills: Same as Rg-1.

Note:

MV = Mercury Vapor
LED = Light Emitting Diode
HPS = High Pressure Sodium

EFFECTIVE:

PSCW AUTHORIZATION:

STOUGHTON ELECTRIC UTILITY

Other Charges and Billing Provisions

Budget Payment Plan: A budget payment plan, which is in accordance with Wis. Admin. Code ch. PSC 113, is available from the utility. The utility does not use a fixed budget year. The utility will calculate the monthly budgeted amount by spreading the estimated annual bill over eleven months, with the last month consisting of any end of year adjustments.

Reconnection Billing: All customers whose service is disconnected in accordance with the disconnection rules as outlined in Wis. Admin. Code ch. PSC 113, shall be required to pay a reconnection charge. The charge shall be **\$40.00** during regular office hours. After regular office hours the minimum reconnection charge of **\$40.00** applies plus any overtime labor costs, not to exceed a total maximum charge of **\$80.00**.

Reconnection of a Seasonal Customer's Service: Reconnection of a service for a seasonal customer who has been disconnected for less than one year shall be subject to the same reconnection charges outlined above. A seasonal customer shall also be charged for all minimum bills that would have been incurred had the customer not temporarily disconnected service.

Payment Not Honored by Financial Institution Charge: The utility shall assess a **\$25.00** charge when a payment rendered for utility service is not honored by the customer's financial institution. This charge may not be in addition to, but may be inclusive of, the water utility's insufficient fund charge when the check was for payment of both electric and water service.

Average Depreciated Embedded Cost: The embedded cost of the distribution system (excluding the standard transformer and service facilities), for each customer classification, is determined based on methodology authorized by the Public Service Commission of Wisconsin, and described in the utility's Electric Rules. The average depreciated embedded cost by customer classification is as follows:

Residential Service: **\$460.00**.

Apartment and Rental Units Separately Metered: **\$460.00** per unit metered.

Subdividers and Residential Developers: **\$460.00** per unit.

General Service: (Including Multi-Unit Dwellings If Billed on One Meter): **\$1100.00**.

Power Service: \$141.00 per kW (Cp-1), \$92.00 per kW (Cp-2), \$53.00 per kW (Cp-3), of average billed demand

Street Lighting: **39.00**

Stoughton Electric Utility
SCHEDULE OF DEPRECIATION RATES
TEST YEAR ENDED DECEMBER 31, 2017

<u>Account</u>	<u>Description</u>	<u>Depreciation Rate</u>
TRANSMISSION PLANT		
355	Poles and Fixtures	3.03%
356	Overhead Conductors & Devices	3.03%
DISTRIBUTION PLANT		
361	Structures and Improvements	1.85%
362	Station Equipment	3.45%
364	Poles, Towers and Fixtures	3.83%
365	Overhead Conductors & Devices	3.79%
366	Underground Conduit	2.50%
367	Underground Conductors & Devices	3.70%
368	Line Transformers	3.33%
369	Services	3.67%
370	Meters	3.70%
373	Street Lighting & Signal Systems	4.00%
GENERAL PLANT		
390	Structures and Improvements	3.33%
391	Office Furniture & Supplies	6.50%
391.1	Computer Equipment	20.00%
392	Transportation Equipment	6.67%
393	Stores Equipment	5.00%
394	Tool, Shop & Garage Equipment	6.67%
395	Laboratory Equipment	5.26%
396	Power Operated Equipment	10.00%
397	Communications Equipment	10.00%
398	Misc. Equipment	5.00%



The way energy should be

1425 Corporate Center Drive
Sun Prairie, WI 53590
P: 608.834.4500 F: 608.837.0274
www.wppienergy.org

Via Email: bkardasz@stoughtonutilities.com

March 30, 2017

Bob Kardasz, Utility Director
Stoughton Utilities
P.O. Box 383
Stoughton, WI 53589-0383

SUBJECT: *Results from the March 15, 2017 Customer-Sited Distributed Generation Test*

Dear Bob:

WPPI Energy conducted a system-wide test on Wednesday, March 15, 2017 of all standby generators receiving monthly capacity payments. Overall, the response from participants was again very good.

During the two-hour test, the generator at the City of Stoughton Wastewater Treatment Facilities had an average output ("Tested Capacity") of 249 kW. This Tested Capacity will be used to calculate your monthly payments for the next 12 months. You should also expect to see an energy payment included with the next monthly payment as a reimbursement for 692 kilowatt-hours of creditable energy generated for WPPI Energy during the test period.

If you have any questions about the test or the payment calculations, please do not hesitate to contact me at (608) 825-1755 or cneeley@wppienergy.org.

Sincerely,

Cory Neeley
Energy Services Representative

cc: Brian Erickson, Stoughton Utilities
Sean Grady, Stoughton Utilities
Jake Oelke, WPPI Energy

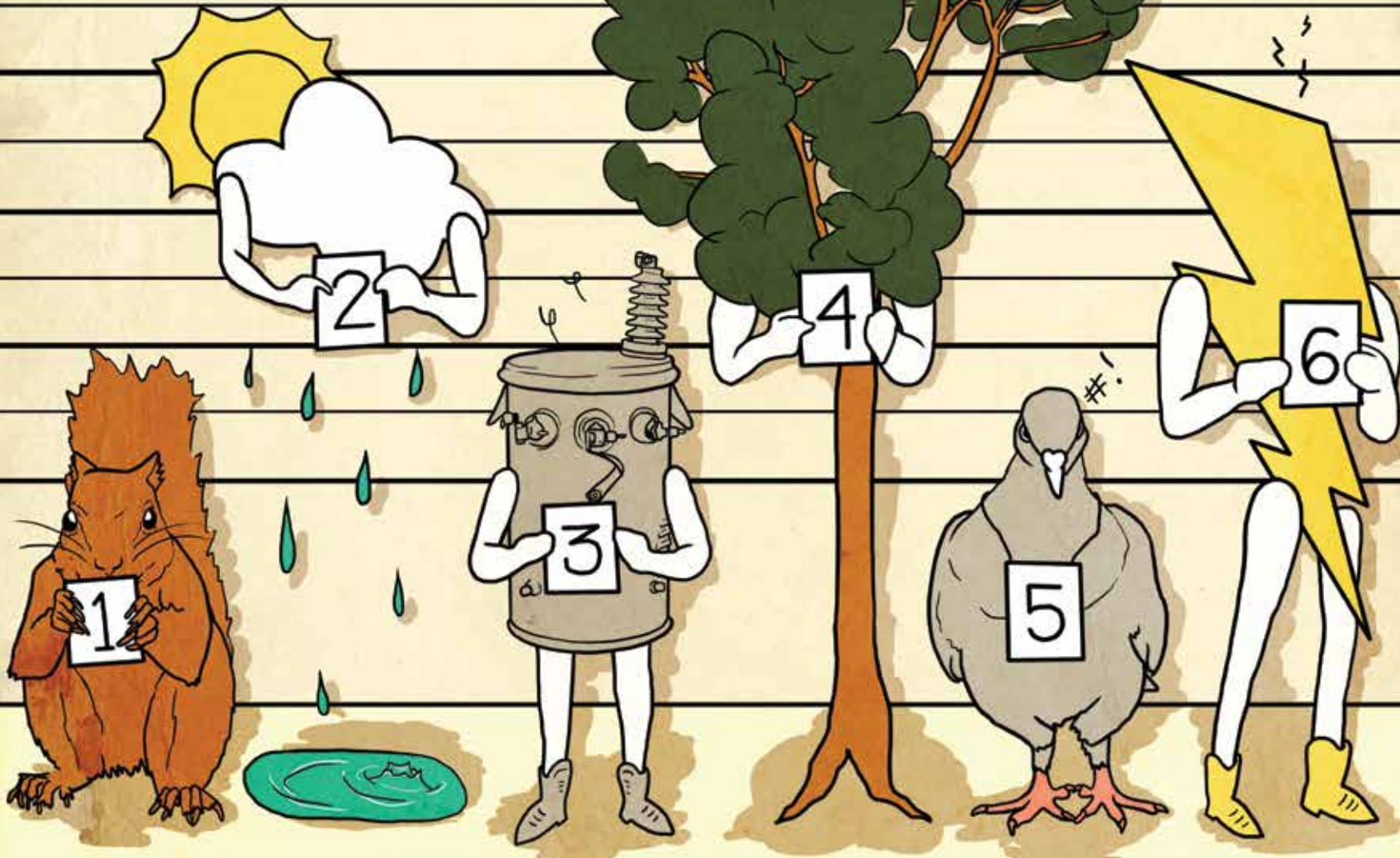
#124478

MARCH/APRIL 2017 • VOL. 75 / NO. 2

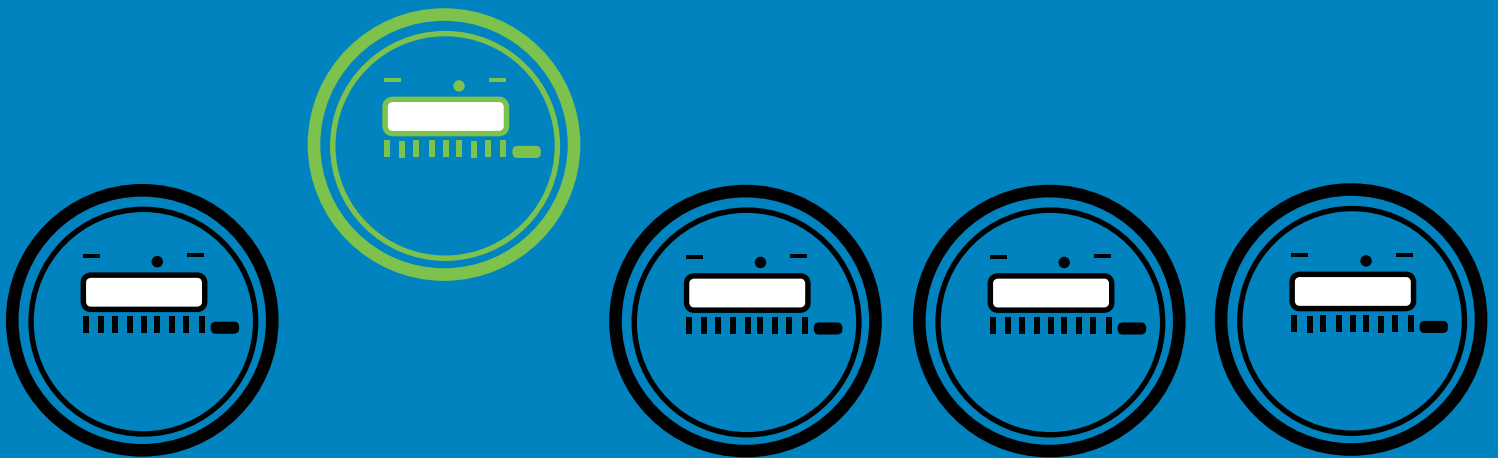
AMERICAN PUBLIC POWER MAGAZINE

AMERICAN PUBLIC POWER ASSOCIATION

**AMERICA'S MOST WANTED
OUTAGE CULPRITS**



THE ENGINEERING ISSUE



The bar for smart meters has been raised.

Sensus Stratus® goes above and beyond other electricity meters in safety standards, accuracy and performance testing. It exceeds ANSI and UL 2735 standards and passes stress and endurance tests beyond those requirements.

Smart? Yes. But it is also a safer, more dependable meter, thanks to patented dual-sensor technology that detects and reacts to out-of-range temperature rise.

And when combined with our secure FlexNet® communication network, your utility will also receive more data, faster. So you can balance your distribution system with built-in phase detection, and manage voltage more accurately than ever before. Taking your grid not just to the next level, but the highest level.

Nothing's out of reach.



SUCCESS

often grows from finding just the right partner.

EXPERIENCE MATTERS. Especially when it comes to electric power transmission. At American Transmission Co., electric transmission is what we do — all day, every day. With more than 80 major projects under our belt, ATC offers a proven track record in getting projects planned, sited, approved and built. And our construction cost estimate accuracy consistently beats the industry standard. Whether you're looking to develop transmission, maintain aging assets or navigate complex compliance requirements, ATC to help take your electric transmission program to new heights.

atc.com



CONTENTS

PUBLIC POWER MAGAZINE

MARCH–APRIL 2017

THE ENGINEERING ISSUE

FEATURES

6 Creating a Culture of Safety

Utilities that are successful in keeping employees safe on the job put safety at the center of every task on every job site.

16 INFOGRAPHIC: Practice Electrical Safety

Share this infographic with your customers so they can avoid electrical failures and malfunctions that cause nearly 50,000 fires in the U.S. annually.

18 Preparing for More DG on the Grid

There's no two-way power flow about it — customers are adding more distributed generation, which may overload the distribution system. Be prepared and know the interconnection regulations.

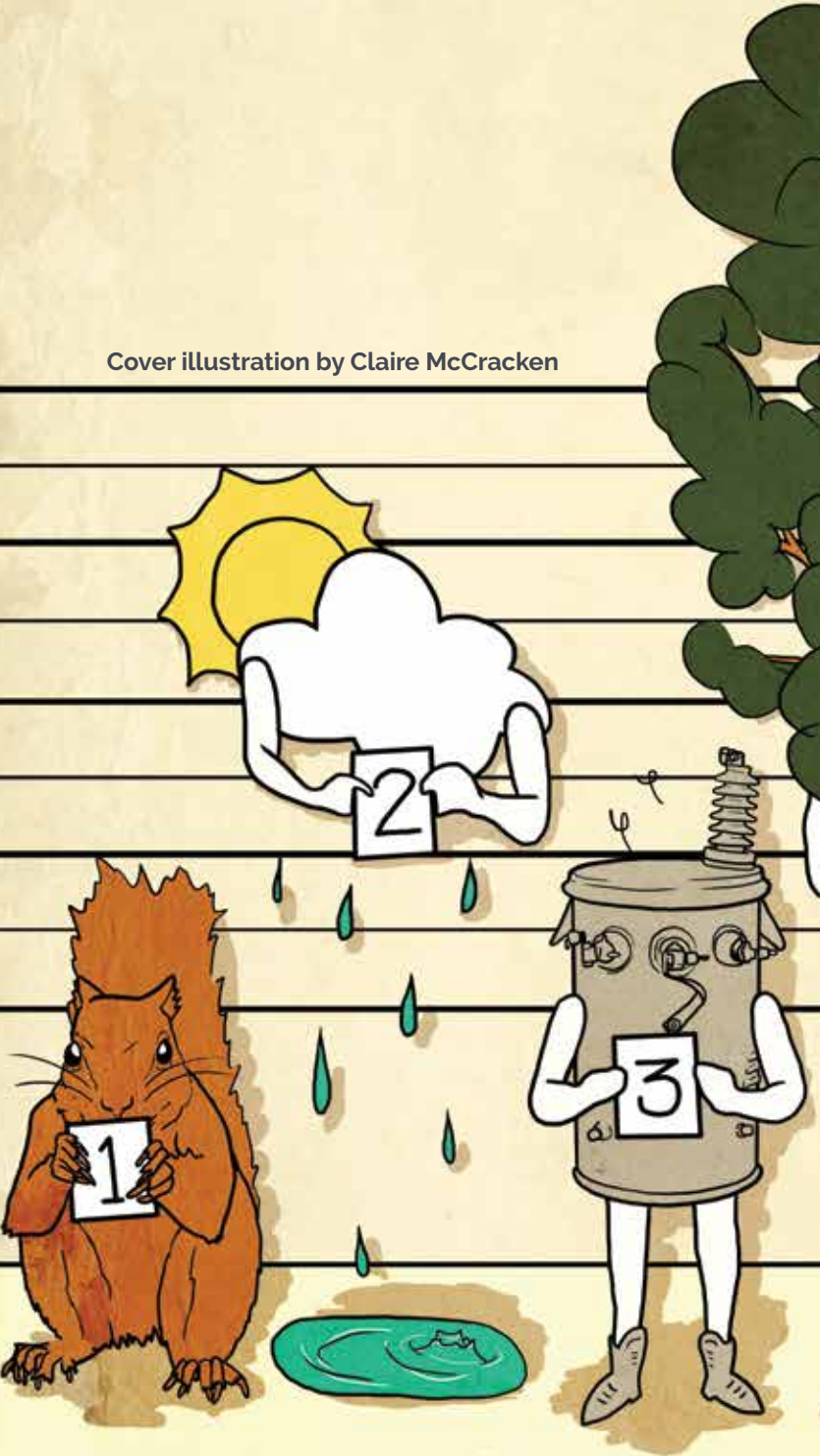
24 INFOGRAPHIC: Back to the Grid Future?

Just how does power make it from a rooftop solar panel into a toaster oven or, even farther, into the electric grid? Share this infographic with your customers and make sure they call you before they invest in distributed generation.

26 Faster Than Domino's Pizza

When the power goes out in Marquette, Michigan, they promise they'll be there to restore it before your pizza will be delivered — that's high reliability. Find out how public power utilities are upping their reliability game.

Cover illustration by Claire McCracken





INSIGHTS

4 Public Power Lines
by Sue Kelly

35 Washington Report

36 Innovation

37 Workforce

38 Going Public

39 Security

40 Last Word



EDITORIAL TEAM

Laura Marshall Schepis
Senior Vice President
Advocacy & Communications

Meena Dayak
Vice President
Integrated Media
& Communications

Paul Ciampoli
News Director

Jeannine Anderson
News Editor

Laura D'Alessandro
Editorial Consultant

Robert Thomas
Creative Director

Sharon Winfield
Lead Designer, Digital & Print

Samuel Gonzales
Director, Digital & Social Media

David Blaylock
Senior Manager, Integrated
Media & Communications

Tobias Sellier
Director, Media Relations
& Communications

Maria Valatkaite
Integrated Media &
Communications Coordinator

INQUIRIES

Editorial
News@PublicPower.org
202-467-2900

Subscriptions
Subscriptions@PublicPower.org
202-467-2900

Advertising
EHenson@Naylor.com
352-333-3443

Advertising is managed by Naylor LLC.

Public Power Magazine (ISSN 0033-3654) is published six times a year by the American Public Power Association, 2451 Crystal Drive, Suite 1000, Arlington, VA 22202-4804. © 2017, American Public Power Association. Opinions expressed in articles are not policies of the Association. Periodical postage paid in Arlington, Va., and additional mailing offices.

For permission to reprint articles, contact News@PublicPower.org.

ABOUT THE AMERICAN PUBLIC POWER ASSOCIATION

The American Public Power Association is the voice of not-for-profit, community-owned utilities that power 2,000 towns and cities nationwide. We advocate before federal government to protect the interests of the more than 49 million customers people that public power utilities serve, and the 93,000 people they employ. Our Association offers expertise on electricity policy, technology, trends, training, and operations. We empower members to strengthen their communities by providing superior service, engaging citizens, and instilling pride in community-owned power.

Postmaster, send all address changes to:
American Public Power Association
2451 Crystal Drive, Suite 1000
Arlington, VA 22202

PUBLIC POWER LINES

SUE KELLY, PRESIDENT & CEO, AMERICAN PUBLIC POWER ASSOCIATION

Standing together to power strong communities

Whether it's meeting evolving customer needs, assuring safety and reliability, or serving their communities in novel ways — often with limited staff and resources — public power utilities are working hard. Sometimes I marvel at just how much they do to power strong communities.

Much of this is, of course, thanks to folks who are doing some of the grittiest work in the electricity business — maintaining all the equipment that keeps the lights on for our customers. And linework is no easy job. It's one of the hardest and most dangerous. Hear from the widow of a fallen lineworker on page 40.

Stories like Tracy Moore's are precisely why it's so important to the American Public Power Association that lineworkers stay safe when doing their job. For the 16th time since 1955, we've published a new edition of the Safety Manual. (Read more on page 8.)

At the annual Public Power Lineworkers Rodeo in San Antonio in May we'll reward the teams that perform their work in the safest manner in various simulated conditions.

While the work lineworkers do is vital to our industry's success and very serious, if I've learned one thing about them, it's that they are very proud of their skills and love to show them off. The Public Power Lineworkers Rodeo is our most memorable celebratory event.

Competition and events aside, one of the best parts of the Lineworker's Rodeo for me is witnessing the camaraderie. Teams from utilities across the nation compete against each other, but they may have also worked hand-in-hand restoring power, thanks to a mutual aid agreement. They may be competing in the morning and checking out each other's T-shirt art in the afternoon. (Having sold shirts in the Association's store more than once, I can personally attest to the strong appetite for T-shirts among lineworkers and their families!) Such relationships are the very fabric of public power's strength. Our communities vary in size, but we are powerful when we stand together.

For a long time, the mutual aid network for the electricity industry needed to address only physical threats. The biggest threats to our system were unpredictable weather events — wind storms, ice storms, hurricanes ... even squirrels! But the world around us has changed and so have the threats to our reliability and safety. Cybersecurity is now a top priority for public power utilities, and this is where new relationships are forming to expand our community's strength.

I'm talking about cyber mutual assistance — translating everything we know about coming to each other's aid in physical scenarios to those digital threats. The Electricity Subsector Coordinating Council (on which Kevin Wailes, CEO of Lincoln Electric System, is co-chair) has already assembled a team of utility representatives to build this cyber mutual assistance network. Representing public power on the network's executive committee is Randy Crissman, vice president of technical compliance operations at the New York Power Authority. Crissman and other utility representatives are developing a cyber mutual assistance agreement that 80-plus utilities have already signed. This agreement spells out the processes utilities would use to ask for support and how they would provide reimbursement in a cyberattack — just like mutual aid agreements public power utilities already employ for physical events.

The process and participants are evolving and this group needs public power's strength more than ever. I encourage you to participate, especially if your team includes cybersecurity specialists who bring unique skills to the table. The group is actively seeking more participants — email CMA@EEI.org for more information.

As the electricity landscape changes, public power utilities are exploring new ways of working together to deal with these changes. The American Public Power Association is here to support you. Find resources throughout this special Engineering issue of Public Power Magazine and on our website at www.PublicPower.org. And I hope to see you at the rodeo!



GRIDLIANCE®

A flexible partner for your utility. A strong partner for your community.

At GridLiance, we know the right solution is the one that meets your needs. That's why our partnerships are custom-built to help lower costs for Public Power and Cooperative customers and improve transmission where they live.

We have the financial flexibility and the operational know-how to make your project goals a reality. Learn more about your cost options, and start planning for your utility's future today.

gridliance.com





CREATING A CULTURE OF SAFETY

IMMERSING THE TEAM

Utilities that are successful in keeping employees safe on the job put safety at the center of all tasks on every job site.

BY JESSICA PORTER,
CONTRIBUTING WRITER



CREATING A CULTURE OF SAFETY



It's no secret utility workers are exposed to risks on a routine basis. From trips and falls to burns and electrocutions, one of the top responsibilities of a utility is to keep its employees safe every single day.

To help mitigate risks on the job, the American Public Power Association releases an updated safety manual every four years. The manual is used by more than 1,000 public power utilities, according to Michael Hyland, senior vice president of engineering services at the Association, where they're preparing to release the 16th edition in early 2017.

Even so, a clear understanding of the safety manual isn't enough. Utilities that are successful in keeping employees safe on the job work hard to create a culture of safety. They put safety at the center of all tasks on every job site.

To do so, communication is vital. Leadership must clearly communicate to employees, and employees must feel comfortable communicating with leadership. And that leadership must be on board. Simply having the CEO regularly sit in on safety meetings shows employees that safety is a top priority.

But safety measures are not just on the front end. Following up on near miss reports or any question about safety from an employee is extremely important. Taking steps to mitigate a problem or explaining the reasoning behind a safety regulation can show that a utility cares about its workforce and is committed to safety.

The ways in which utilities develop these qualities can vary. Some utilities hire an in-house safety expert to help develop a safety culture. Others partner with third-party experts who come in to conduct training and job site audits. Both techniques can help develop a culture of safety.



“Rules and regulations can be so complicated, so we try to take the complication out of it,” Willetts said. “We articulate the regulations to employees, but they don’t want to hear about it; they just want to know how they can do their job safely.”

Partnering for Safety

Electric Cities of Georgia works with 67 city utilities in Georgia and Florida to provide training and safety expertise. Jon Beasley, director of training and safety for ECG, recommends utilities work with a third party to get a broader perspective on safety.

“If you don’t have an outside person come in, habits often get repeated in a utility, and they don’t recognize a habit as bad until something bad happens,” Beasley said.

ECG combines training and updates for a holistic approach to safety. It conducts groundman, apprentice and advanced lineman training, while keeping employees up to date on new safety rules and regulations.

“Some companies keep it separated: Instructors are either in the safety department or in the training department,” Beasley said. “Sometimes the training instructors don’t stay up to date with safety regulations, and they barely communicate with each other. Keeping them together ensures everyone is aware of safety regulations.”

The Minnesota Municipal Utilities Association represents the interests of municipal electric, gas and water utilities in Minnesota and works hard to help electric utilities develop a culture of safety.

To help, it created a safety group consortium. Safety professionals in the consortium are dedicated to working with about six utilities. “Even though we may visit each utility only a few times a month, the utilities have someone they can call anytime,” said Michael Willetts, director of training and safety for MMUA.

MMUA employees in the consortium do safety training and aim to make safety regulations easy to understand and apply in the field. “Rules and regulations can be so complicated, so we try to take the complication out of it,” Willetts said. “We articulate the regulations to employees, but they don’t want to hear about it; they just want to know how they can do their job safely.”

Developing a safety manual and educating employees about the rules and regulations is just step one. Step two is making sure employees apply what they learn to the job site. Beasley recommends utilities conduct safety audits routinely.

“Many utilities find it uncomfortable to go check on crews and write them up if they see something wrong. Not many utilities do it, so it’s a huge missing component,” he said. “They spend money on a safety manual but don’t do anything to make sure employees follow the manual.”

ECG also coaches utilities to create an accident investigation program, which can help determine the root causes of safety incidents. In addition, it encourages utilities to conduct job briefings each day to make employees alert about hazards specific to each job.

Keeping Safety In-House

When Kati Griffin was hired as a safety and training specialist for City of Independence Power and Light in Independence, Minnesota, she had to create a safety program from the ground up. She created the Nest, a safety training program that all new and current employees must attend. The Nest is a hybrid of concepts learned during her 13 years of experience with safety orientations and industry best practices.



One of the top challenges was getting all employees on board with the new program — a concept she will be talking about during the American Public Power Association's Engineering and Operations Technical Conference in May. Many City of Independence Power and Light employees have decades of experience in the industry, and Griffin said she had to determine ways to best reach them.

“At first, I just gave them tasks to do, but I didn't give them the concept of why, and I was talking too quickly,” she said. “I realized it wasn't their fault I wasn't getting through. I had to determine what I needed to change to give them what they needed to learn the material.”

As part of the Nest, employees are immersed in safety. The utility conducts instructor-led safety meetings each month, as well as weekly meetings for all employees. Employees also go through regulatory training online, which frees up their in-person meeting time. “At first, they will grumble. But at least they are talking about safety, and it's in the front of their minds,” Griffin said.

Each year, she picks a topic of focus for every meeting. In 2016, the topic was mindfulness, and she encouraged employees to focus on the present, instead of thinking about their next job or what happened on their way to work. Her goal was to decrease safety issues by encouraging employees to be mindful of present tasks.

Her efforts have paid off. “I have seen employees take more ownership for themselves,” Griffin said. “It's a tight-knit group here, and they hold each other accountable. It's like family.”

BEHIND THE SCENES: Creating the American Public Power Association's Safety Manual

Many utilities rely on the American Public Power Association's safety manual to provide a safe work environment, so keeping an updated manual with current regulations and best practices is extremely important.

However, updating the manual is no small feat. The Association created the SMRT Force, which stands for the Safety Manual Revision Task Force. The task force consists of 12 people representing various regions of the country.

SMRT Force

Chairman, Michael Willetts, Minnesota Municipal Utilities Association, Minn.

Vice Chairman, Jon Beasley, Electric Cities of Georgia, Ga.

Thomas Bruhl, City of St. Charles, Ill.

Michael Byrd, Electricities of North Carolina, Inc., N.C.

Jim Coleman, Santee Cooper, S.C.

Will Crow, City of Winfield, Kan.

Keith Cutshall, Clarksville Department of Electricity, Tenn.

Scott McKenzie, American Municipal Power Inc., Ohio

Craig Peay, Bowling Green Municipal Utilities, Ken.

Robert Scudder, Grand River Dam Authority, Okla.

Kevin Sullivan, Wellesley Municipal Light Plant, Mass.

John Van Gundy, City of Mesa, Ariz.

To determine what changes will be made to each edition, the SMRT Force puts out a call for change proposals. Anyone in the industry, from American Public Power Association staff to journeyman lineworkers, can submit a proposal. Next, the SMRT Force holds a series of meetings to review every proposal. Each proposal is:

- Approved as received
- Accepted on principle, but with some edits
- Rejected with stated reasons, OR
- Tabled for further discussion or consideration

The SMRT Force responds to every proposal, regardless of whether it is included in the final manual.



CREATING A CULTURE OF SAFETY

“We all agree it’s about safety; keeping employees and the public safe is what codes are all about. If electricians do work on the utility side, they need to be trained as utility workers. If utility employees do work on the customer side, they need to be trained as electricians,” Hyland said.



Microcables That Go the Distance

MiDia® Microcables

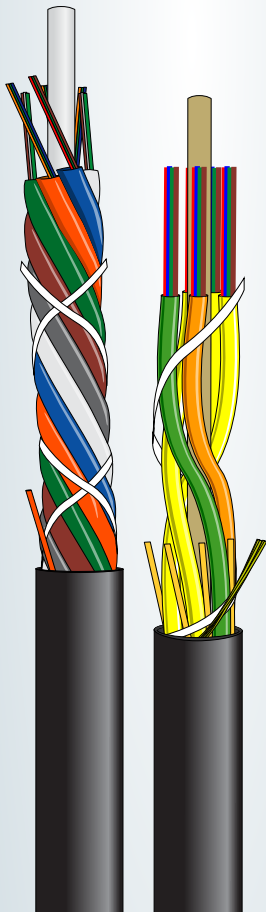
DESIGNS FOR VIRTUALLY
ANY MICROCABLE DEPLOYMENT

Optimized for long,
continuous air-blown distances

Superior performance
and reliability of
OFS Optical Fiber



www.ofsoptics.com



CREATING A CULTURE OF SAFETY



Leadership Drives Safety

Safety at CPS Energy in San Antonio is driven by the utility's leadership, which has resulted in safety being deeply engrained in the company's culture.

"I report directly to our CEO, so safety has top visibility in our company. As a consequence, safety gets consideration among all top values," said Fred Bonewell, chief safety and security officer for CPS Energy. "It's vital that all employees see this concept, because it solidifies any doubt as to where we stand on safety."

If work can't be completed safely, the utility's safety policy mandates that the work will not continue. In addition, the utility's safety department presents a progress report to its board of trustees every three months. And all job site leaders, such as front-line supervisors and foremen, start every meeting with a safety message.

Leaders in the field are responsible for modeling appropriate safety behavior, ensuring all employees receive 40 hours of safety training and conducting the required number of behavioral observations.

"Simply relying on a safety manual leaves compliance to a book-only approach with no training or established work procedures on how to integrate the rules in the safety manual into daily work," Bonewell said.

By making safety part of the company culture, utilities can create a better work environment and ensure all employees make it home safely at the end of each day.

Electric Codes Struggle to Keep Up With New Power Technologies

The increase of smart power technologies is presenting challenges to the power industry, as it works to manage the changes in distribution systems and partner with the broader electric industry to find solutions.

Just a few decades ago, nearly all energy was produced by large coal, nuclear, hydro and gas plants that were connected to a transmission system. That energy then flowed outward to distribution systems and eventually to customers.

Now, new technologies are emerging — and quickly. "In the last 10 years, we've seen a rapid increase in rooftop solar, solar communities, microgrids in towns, battery storage, and electric vehicle technology," said Michael Hyland, senior vice president of engineering services for the American Public Power Association. "The flow of electrons has gotten exciting."

The challenge lies in the electrical code applied to the new systems. The National Electric Safety Code, or NESC, is what most utilities abide by for design and construction techniques. The National Electric Code, the NEC, is what most electricians follow for electric systems in buildings. But sometimes, the line between the two codes becomes blurred.

For example, consider a town that decides to become a microgrid and remove itself from the main grid. The underground lines likely were installed using the NESC, while the electric systems inside the buildings were installed using the NEC. Now that the underground lines no longer connect to a utility, it's unclear what code should be followed for maintenance and safety handling.

"The ramifications of unclear codes are cost, safety, fault currents and misunderstanding of the technical aspects of running a system," Hyland said.

New technology affects large-scale plants as well. Hyland describes touring a solar installation with eight million solar panels, which makes it a 550-megawatt plant — the equivalent of a coal plant. A coal plant would follow NESC guidelines, but the solar plant falls under jurisdictional authority, which is the local electric inspector. Even though the project is the size of a utility project, NEC guidelines apply, resulting in higher construction costs and different regulations for safety protection.

To clear up the gray area, Hyland, who is also on NESC's executive committee, called for joint effort between the NESC and NEC committees.

"We all agree it's about safety; keeping employees and the public safe are what codes are all about. If electricians do work on the utility side, they need to be trained as utility workers. If utility employees do work on the customer side, they need to be trained as electricians," Hyland said. "The goal is to make sure people are trained and qualified to work on equipment, regardless of the project it's on."

The NESC isn't due for an update until 2022, so it will be a number of years before it reflects the updates in technology. But the NEC will be updated in 2019, so the chances for clarification are high in the next few years as the code committees work together to find solutions.

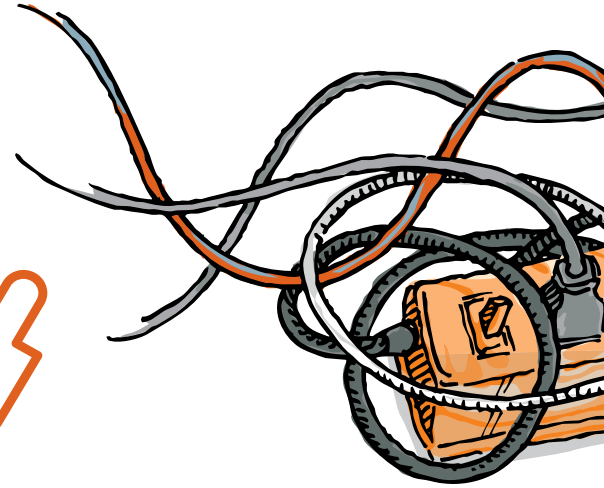
READ MORE about distributed generation on the grid on page 18 and see a diagram of how distributed generation connects to customers and the grid on page 24.

PRACTICE
ELECTRICAL
SAFETY:

DON'T

OVERLOAD

YOUR HOME



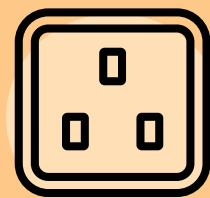
Nearly 50,000 fires in the U.S. are caused by electrical failures or malfunctions annually, resulting in more than **400 deaths, 1,500 injuries and \$1.4 billion in property damage**. Help lower your risk of electrical fires. Here's how.



Flickering, blinking, or dimming lights



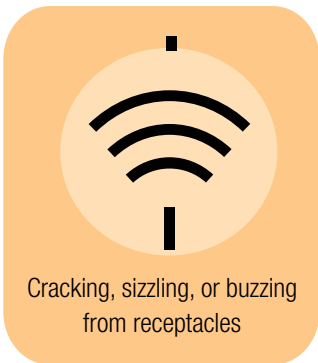
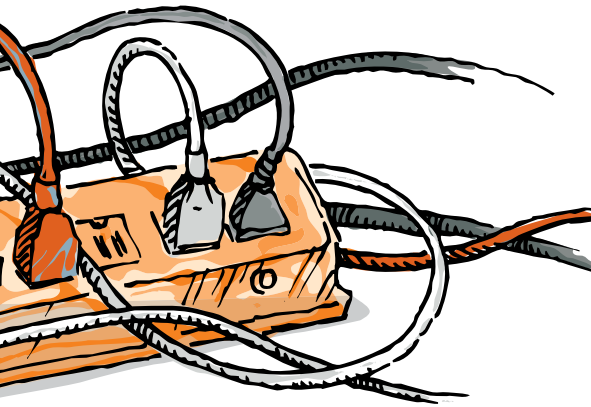
Frequently tripped circuit breakers or blown fuses



Warm or discolored wall plates



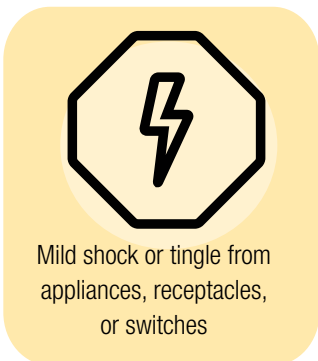
WARNING SIGNS



Cracking, sizzling, or buzzing from receptacles



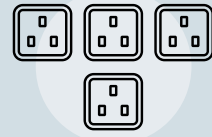
Burning odor coming from receptacles or wall switches



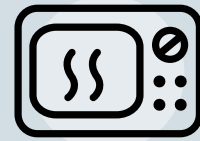
Mild shock or tingle from appliances, receptacles, or switches

PREVENT OVERLOADS

Never use extension cords or multi-outlet converters **for appliances**



Only plug one **heat producing appliance** into a receptacle outlet at a time



If you have too few outlets in your home, have a **qualified electrician inspect** your home and add new outlets



Power strips **only add additional outlets**; they do not change the amount of power being received from the outlet



Use **appropriate watt bulbs** for lighting fixtures



Share this infographic with your customers. Email News@PublicPower.org to request a copy or visit PublicPower.org>News>Public Power Magazine to find the digital edition.

This infographic was produced with content from Electrical Safety Foundation International.



PREPARING FOR MORE DG ON THE GRID: NO TWO-WAY POWER FLOW ABOUT IT?

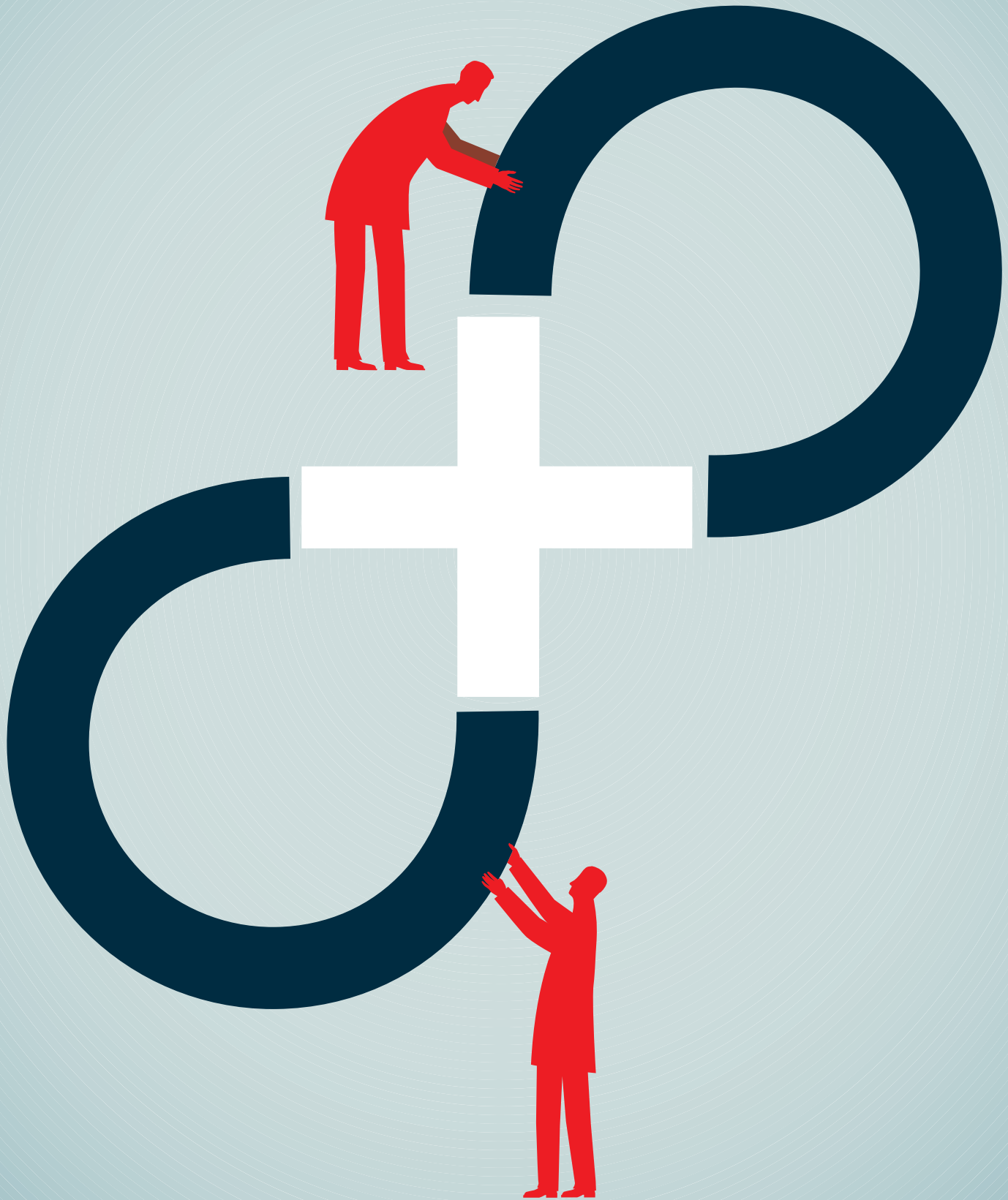
BY LAURA D'ALESSANDRO, EDITORIAL CONSULTANT

Installing solar panels seems simple, according to all those companies selling them. Just sign up, invite someone onto your roof to install them, and boom, you're in business — generating power even when the grid goes down. Right? Not exactly.

There are rules governing grid connections and often distributed generators — homes or businesses generating power to primarily meet their own needs. A house with rooftop solar, for example, isn't allowed to produce power when the grid is down. The generator must also apply to connect to the grid, and then a utility must manage how that generation source is integrated into its distribution system.

As more customers generate some of their own power, utilities are watching for effects to their distribution systems, especially as two-way power flow increases. Meanwhile, for customers, connecting to the grid may be easy for early adopters, but the process can slow down as utilities and governing bodies get overloaded with applications.





Breaking the Camel's Back

The varying size and territory of utilities makes their concerns with distributed generation unique. But in the process of working with and interviewing hundreds of utilities on distributed generation interconnections, Michael Coddington has discovered some common themes. Coddington is a principal engineer in the integrated systems group at the National Renewable Energy Laboratory's Power Systems Engineering Center. The concerns he's heard the most have to do with voltage control, grid protection, reverse electricity flow and unintentional islanding.

"Some of the most common concerns for utilities are that distributed generation could have a negative impact on the utility system," Coddington said. Each one of these factors could be the straw that breaks the camel's back — the voltage spike that causes an outage. "Solar and distributed resources in great enough quantity could cause high voltage on the grid which is potentially damaging to the customer load."

Sure, the grid has protections in place — fuses and circuit breakers. These devices are coordinated, but they were set up for a grid that serves homes, not a grid that receives power. If an outage occurs, a utility's goal is to contain it to affect the smallest number of customers. But because distributed energy puts power back on the grid, it can negatively impact those protections, Coddington said.

As many engineers will tell you, the power grid was never designed for electricity to flow both ways. Coddington said this is why reverse flow raises a slew of concerns.

And while rooftop solar customers may think they can go "off the grid" thanks to their own power source, that's called unintentional islanding and it's to be avoided. Planned islands, like hospitals with generators, have been around for ages, said Tom Stanton, principal researcher for energy and environment at the National Regulatory Research Institute. But those planned islands don't try to power the block next to them when the power is out, which is what could happen with a solar system unintentionally left online while the rest of the grid is down.

Interconnect and Integrate

Coddington and Stanton together have been studying how utilities and states are working to improve interconnection and integration processes. The duo made a presentation to the National Association of Regulatory Utility Commissioners in February at the group's annual winter conference in Washington.

Some utilities are already using fast, reliable distribution system modeling to keep tabs on all major distributed energy resources in their service territories, Stanton and Coddington said. These utilities may also be using easily accessible maps that show substation and feeder hosting capacity — a way to monitor the straws on the camel's back, so to speak.

These maps can help focus attention on low-cost and good-better-best locations for installing distributed generation. Utilities also have more and better mitigation techniques at their fingertips that can enable more distributed generation on existing circuits. Meanwhile, Coddington is engaging directly with the Institute of Electrical and Electronics Engineers and Underwriters Lab to look at the changes that are starting to take place around the standards for interconnection based on inverter capabilities.

But the work is not for utilities and safety organizations to do alone. States are implementing processes and procedures that make for best practices industry wide, Stanton said. States that have seen an influx of distributed generation — such as California, Arizona and Hawaii — have served as test cases for new regulations. These states and others are already using uniform state rules and procedures for all utilities, employing online and electronic interconnection applications, streamlining a transparent process with open communication between utilities and developers, and tracking project applications with simple, reliable systems.

PUBLIC POWER FORWARD: Top 5 Resources for the Utility of the Future

Public Power Forward Roadmap

Do you wonder about the path toward a new era in electricity? This map addresses changing customer service preferences, technologies, regulations and market forces.

Residential Consumers and the Utility of the Future

The utility isn't the only one in the community worrying about how things are changing; it's customers, too. This white paper identifies the top consumer concerns with policy initiatives that stimulate growth in distributed generation as well as changes in rate design.

Grid Modernization Roadmap

In response to the Smart Electric Power Association's 51st State Initiative, this guide lays out the current and future state of public power with actionable transition steps.

Rate Design

If your utility has ever considered the impact of distributed generation on its revenue recovery, check out these rate design options and the pros and cons of each approach. The paper is accompanied by an infographic of the top 10 questions your utility should ask before implementing new rates.

Value of Solar Primer

We get it: Valuing solar power on the grid is hard. Different studies have produced different results. Find out why and dig into the pros and cons of adapting a value of solar tariff.

Find all these resources and more on **PublicPower.org** under **Topics>Public Power Forward**.

Preparing Customers

With regulators streamlining procedures and utilities mapping distribution systems, one important piece remains: educating customers. Taking note of the emerging trend toward solar and other distributed energy resources, wholesale energy supplier American Municipal Power Inc. is supplying its member public power utilities with a manual to prepare them for customer inquiries about distributed energy devices.

AMP published the 75-page Focus Forward Member Toolkit in late 2016 as a guide to distributed energy resources that addresses national trends impacting the electric industry. The manual focuses on customer-owned generation, rates and interconnections.

“We wanted to be as proactive as possible in helping our members prepare,” said Jolene Thompson, AMP’s executive vice president of member services and external affairs. “We’ve received a number of inquiries from our members over the past year about customer-sited generation, and that led the AMP Board of Trustees and executive team to formulate a strategic approach. You don’t want to be in a position where you haven’t thought about it. Try to be ahead of the game, if you can.”

AMP, based in Columbus, Ohio, is a joint action agency that supplies power and services to more than 130 public power utilities in Ohio, Pennsylvania, Michigan, Virginia, Kentucky, West Virginia, Indiana and Maryland, and to the Delaware Municipal Electric Corporation, a sister joint action agency.

AMP worked with consultants to compile the member toolkit. The manual includes an interconnection checklist. The manual also emphasizes the importance of engaging stakeholders — including customers — when designing a distributed resource program.

AMP’s manual is available online for its members. The American Public Power Association is also offering resources and tools to member utilities nationwide through its Public Power Forward initiative. Access them at PublicPower.org under Topics and Public Power Forward.

TECH
PRODUCTS, INC.

SIGNS, TAGS & MARKERS

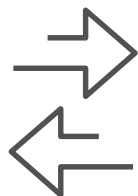
Installed in the Most Demanding Environments on Earth!

- High Voltage Transmission Tower Tags
- Substation Signage
- Distribution Pole Tags
- Pole- and Pad-Mounted Transformer Labels
- Secondary Cable Markers

MADE IN USA

1-800-221-1311
www.TechProducts.com

@TechProductsInc



BACK TO THE GRID FUTURE

Connecting a solar panel to your rooftop doesn't necessarily mean you can run your power when the grid is down or put power back on the grid. For that you'll need **interconnection**. Here's how it works.

To get to your home, electricity travels on the grid from a centralized generator — like a natural gas power plant or a wind farm. But distributed generation technologies, like rooftop solar panels, have made it possible for that electricity to change directions, flowing from your roof onto the grid.

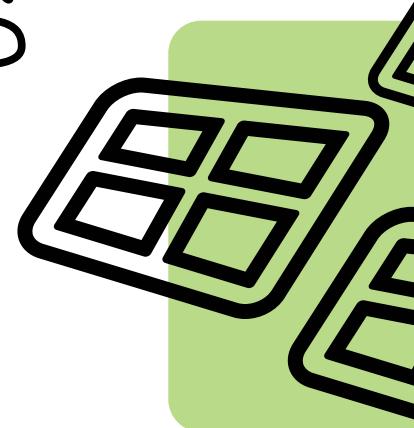
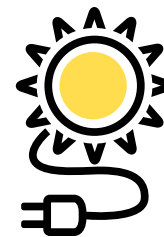
What you'll need:

A **generator**, installed behind the meter. Behind the meter means at your house. Think rooftop solar panels or a home battery.

An **inverter**, which regulates the change in current from your solar panels. The inverter changes the current from direct to alternating, which is what home appliances use. It also synchronizes the current to fit the grid, adjusting output voltage to slightly higher than grid voltage to allow it to flow outwards from your home.

Who can help:

Solar installers might be qualified to integrate your new power source to your utility's distribution grid, or, your utility's grid may be fully equipped to integrate the solar. But it's best to call your utility and find out. Contact your utility before you go solar or install a home battery.

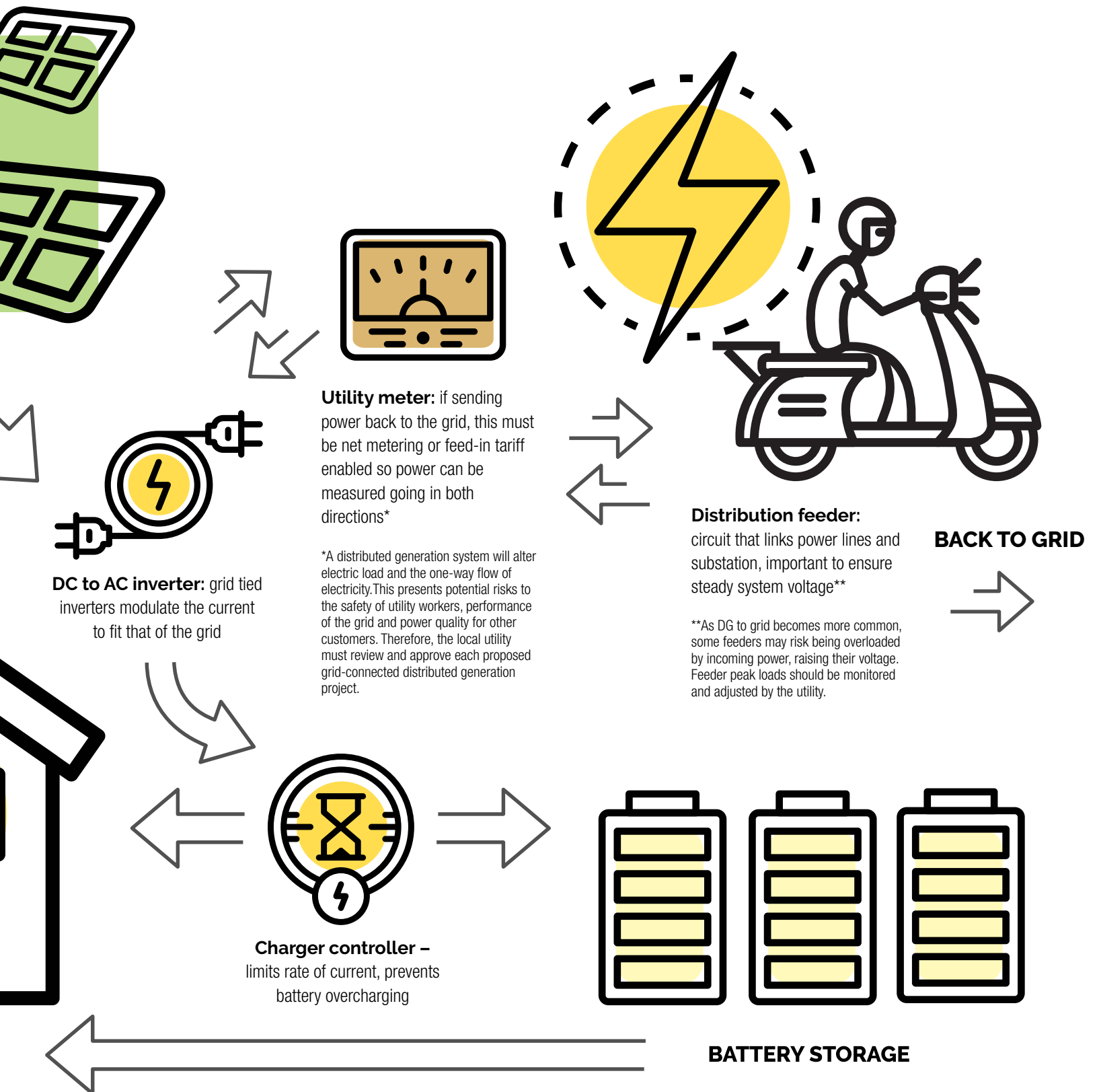


PV SOLAR PANELS



HOME POWER

HOW IT WORKS:



RELIABILITY: WE'LL BE THERE BEFORE THE PIZZA

BY ELISA WOOD, CONTRIBUTING WRITER





PRESS

Remember when Domino's promised a free pizza if they didn't deliver within 30 minutes? They've dropped the guarantee due to safety concerns, but the idea lives on — with the Marquette Board of Light and Power, recognized as a Reliable Public Power Provider by the American Public Power Association.

If your power goes out in this lakefront community, “You can call and get a pizza, and we'll be there before the pizza,” said David Lynch, MBLP's assistant director for utility operations. The utility's average outage response time is 23 minutes.

The city of Marquette is nestled on the southern edge of Michigan's Lake Superior. It is buffeted by high winds and other nasty weather, especially in the winter, which used to cause area residents, not to mention MBLP, major headaches due to downed power lines.

However, since 1989, the overall outage time per account has dropped by 66 percent to 30 minutes, and outage time per occurrence has dropped by about 55 percent, said Lynch. A pretty good track record for a company with 17,000 customers and 250 square miles to cover.

Why Utilities Upped Their Game

MBLP's efforts are part of a growing push by utilities to make the U.S. power grid more reliable. Electrical disruptions are inevitable on the massive U.S. electric grid, which the Department of Energy sizes at 642,000 miles of high-voltage transmission line and 6.3 million miles of distribution line. Annually, power outages affect from 13.2 million to more than 41.8 million people, according to data collected by Eaton's Blackout Tracker for 2008–2015.



Weather is a big part of the problem. Between 2003 and 2012, an estimated 679 widespread power outages occurred due to severe weather. Rural areas, especially those that are heavily treed, are particularly hard hit. High-density public power communities are less susceptible to outages, because they have fewer miles per customer and, in some locations, underground distribution lines, according to the U.S. Energy Information Administration.

As our world becomes increasingly digital, outages deny us more than just Netflix and phone charging. Our economy pays a big price, as much as \$70 billion annually, according to the Department of Energy.

While storm intensity, often considered an act of God, is beyond the utility's control, analytics advancements have increasingly given utilities better means to fight back. New data sources help utilities predict and prevent damage. As a result, they save money, develop improved business opportunities, and strengthen relationships with customers in three critical business areas: cost reduction, improvement, and customer engagement, according to the 2016 report by strategic consultant Bain & Company, "How Utilities Are Deploying Data Analytics Now."

Here are the actions some public power utilities are taking in each of these areas to achieve critical financial and service goals.

Cost Reduction

Data analytics can help increase capital productivity and save on operations and maintenance expenditures. For example, MBLP leverages its storm and outage data, so the utility can act based on predictive analysis.

"In predictive mode, we can monitor transfer and circuit loading on individual feeders down to the secondary level and predict if we are going to have a problem — and get out there before it occurs," said MBLP's Lynch.

Predicting and locating potential outages before they occur saves money and reduces risk by deploying capital more optimally, according to Bain & Company. Further, data analytics helps utilities understand their procurement needs better by weighing spending against value. A point not lost on Springfield, Missouri.

This city sees it all. Seated in the center of the country, Springfield gets the sometimes fast and furious impacts of all four seasons. These include hurricanes, ice storms, and tornadoes, said Brent McKinney, director of electric transmission and distribution for City Utilities of Springfield.

The utility serves 111,000 electric meters. McKinney said it has begun to use smart meters to collect data, and analytics to sort it all out.

Sometimes better data collection leads to surprising results. Because data collection is becoming more accurate, the utility expects to score worse on frequency of outages — not because it is having more outages but because it is better at detecting them.

And being better at detecting them makes the utility better at doing something about them. McKinney said the utility has undertaken what it calls its 3–10 Program. "We find areas that within the last 12 months have had three outages or 10 hours of outages of power in a year...we consider that unacceptable," he said. The utility determines a cause for every outage in those areas and addresses them.

Lesson learned? While it is not a panacea, using data analysis can be a cost-effective way to improve reliability.

"Data can really help you effectively use your maintenance dollars for outages and reliability. We have been able to use a much smaller amount of money... to get the biggest bang for the buck," McKinney said.

Reliability Improvement

Alex Hofmann, director of energy and environmental services at the American Public Power Association, takes a special interest in electric reliability.

The Association's latest version of its reliability software, the eReliability Tracker, is now available to member utilities. The software tool helps simplify utilities' decisions by providing detailed outage summary reports and utility-specific benchmarking data analysis.

"It is a web app. It lets them give us outage data in their own account. It helps them run reports, visualize their data, understand and rank certain elements of their system based on reliability," he said. "This is data many small utilities wouldn't have access to — and benchmarking that larger utilities would pay a substantial sum to get."

The eReliability Tracker is an advanced technology that is in the right place at the right time for utilities. Data collection and analysis are coming to the fore: "Advanced analytics boost reliability dramatically by preventing outages through more accurate predictions about when to replace failing equipment, or improving outage response through situational awareness (for example, automated dispatch through real-time identification of an issue) and better management of performance," said the Bain & Company report.

As a subscriber to the eReliability Tracker, a utility receives an annual national reliability report based on the software data and earns

points toward its Reliable Public Power Provider, or RP3 designation.

The Association hopes its eReliability Tracker service will help member utilities understand reliability data better, benchmark more efficiently, and promote collaboration among members to improve reliability, Hofmann said. “We feel it is a really successful endeavor, and we get a lot of good feedback.”

Sometimes better reliability requires a good old-fashioned dose of reality. Is there enough generating capacity? For MBLP, that’s an important consideration, since it is at the “end of very, very long transmission extension cord,” the Upper Peninsula region of Michigan. “If someone trips and pulls it out of the wall, we are kind of on our own out here,” Lynch said.

MBLP predicted a potential for rolling blackouts if its 44-megawatt coal unit went out — the utility wouldn’t have enough backup power to cover loads. So it sprang into action four years ago, and by June of this year, it expects to have the Marquette Energy Center online: a new 50-MW dual fuel natural gas reciprocating engine, equipped with diesel backup.

Analytics and new capacity are just part of the utility’s extensive reliability effort. Marquette’s intense winds in the spring and fall have been responsible for many of the utility’s power outages. But an aggressive program to bury power lines in conduit, especially along the district’s Lake Superior shoreline, has almost eliminated outages in the area.

MBLP also performs a system study every five years, with three-year audits and adjustments where needed. It has learned that summer peaks are now approaching winter peaks — which makes generation reliability a year-round concern.



What is RP3?

How to be a Reliable Public Power Provider

Reliability is one of the foundations of public power. The more efficiently a utility operates, the more likely it is to keep the lights on and therefore keep customers happy.

The Reliable Public Power Provider program is the public power industry’s way of recognizing those utilities who set the bar not only in reliability, but also in safety, workforce development and system improvement.

The American Public Power Association’s RP3 designation demonstrates to a utility’s community, leaders and governing body that the utility is committed to excellence. Designations are given in Gold, Platinum and Diamond levels.

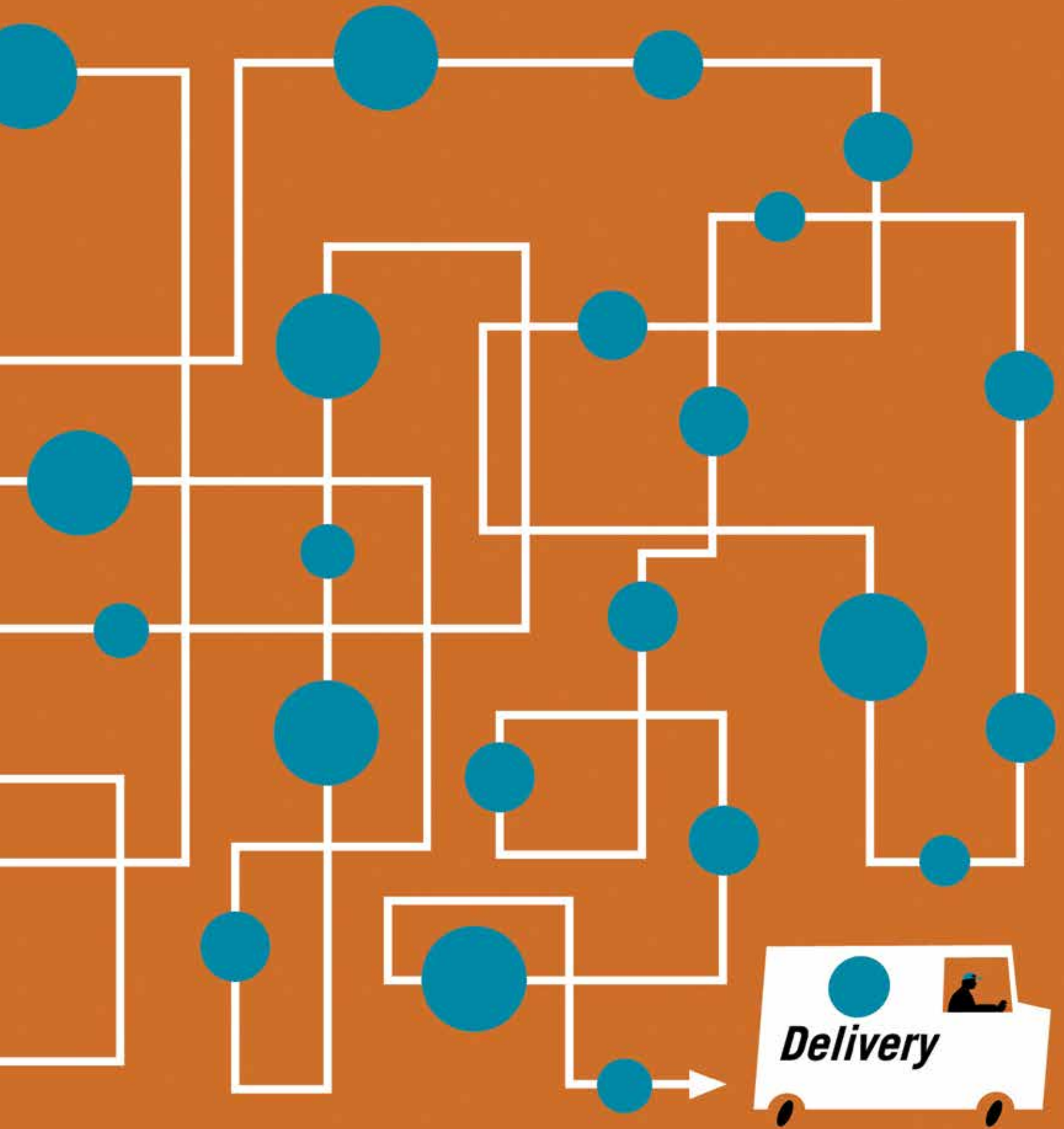
The program works on a point system. Utilities earn points for employing best practices, such as examining and containing their energy losses through excellent long-run operational decisions that result in higher performance. Applications are vetted by the RP3 expert review panel each fall. But the designation is more than a bragging point — it benefits the utility’s operations overall.

Utilities who are employing the leading practices on the RP3 checklist have a better incidence rate than other utilities, by an average of 51 percent. Because of these improvements, many utilities have been able to use their RP3 designation to get better bond or insurance rates.

Visit PublicPower.org/RP3 for more information about how to participate, or email RP3@PublicPower.org.

DESIGNEES

Find a list of RP3 designees at PublicPower.org/
PublicPower.org/RP3



RELIABILITY: WE'LL BE THERE BEFORE THE PIZZA

Customer Engagement

When a utility understands its customers and their energy use better, it can more ably design new and more focused products and services. Bain & Company points out that data analytics have helped utilities design new products and services, such as demand-side management programs that reduce electricity use at peak times.

In addition, analytics allow utilities to provide more accurate information to customers about power outages, grid updates, and repair work by field crews, all of which can raise customer satisfaction.

Such customer engagement can also lead to strange bedfellows, but each partner should take the time to understand the needs and goals of the other to effectively work together, according to MBLP's Lynch.

He explained: Michigan is a legal medical marijuana state. Unknown to MBLP, residences were being converted to grow operations, and very, very high loads were being added to those accounts. "It's hard for us to detect until we have a problem."

Lynch noted that the increased electricity use could cause a system problem by severely overloading a secondary network and transformer. With data analytics, Lynch said that utilities can detect, and, importantly in this case, more quickly pinpoint the increase in use by the grow operations.

The utility explained to these residents the potential for power outages and encouraged them to share information about their operations and electricity use — at least as much as they were willing. It's not always been easy.

"Generally, they are pretty secretive about it because they don't want to advertise, of course. And they're not forthcoming with the information," Lynch said. But by engaging with customers, the utility can help the growers before their power goes out — and their operations go up in smoke, no pun intended.

SUPERIOR STRINGING EQUIPMENT FROM CONDUX TESMEC



ARS510 15,000 lb. Puller Overhead & Underground

Condux Tesmec's comprehensive line of stringing equipment is the most advanced in the world. Pullers, tensioners and puller-tensioners from Condux Tesmec are the safest and most reliable equipment in the power transmission and distribution industry. In addition, many Condux Tesmec pullers offer both overhead and underground pulling applications. And a full line of productivity-enhancing conductor stringing tools and accessories is also available.

See the most advanced line of stringing & pulling equipment from Condux Tesmec today at ConduxTescmec.com



AFS404 10,000 lb. Puller-Tensioner

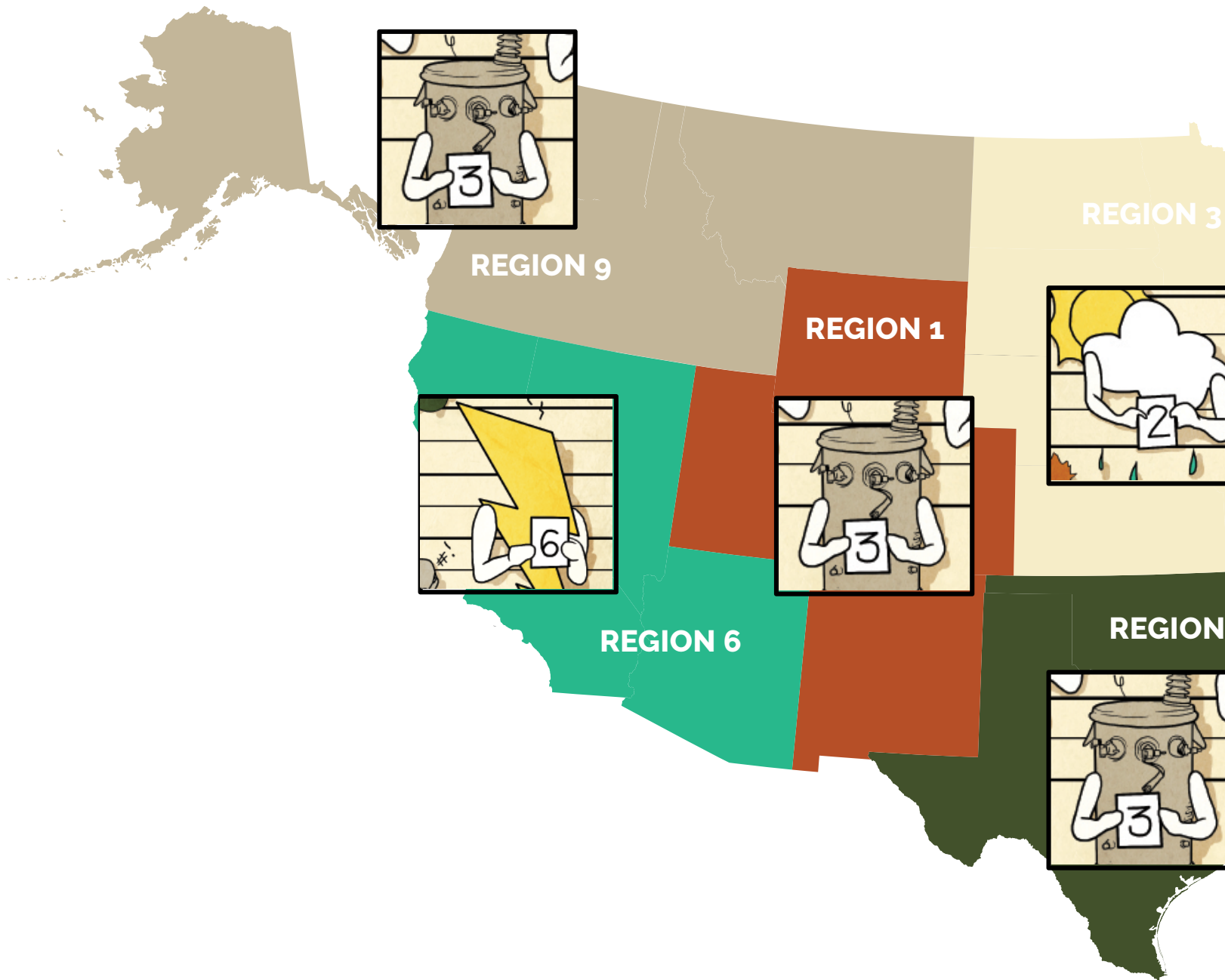


AFB506 20,000 lb. Puller-Tensioner

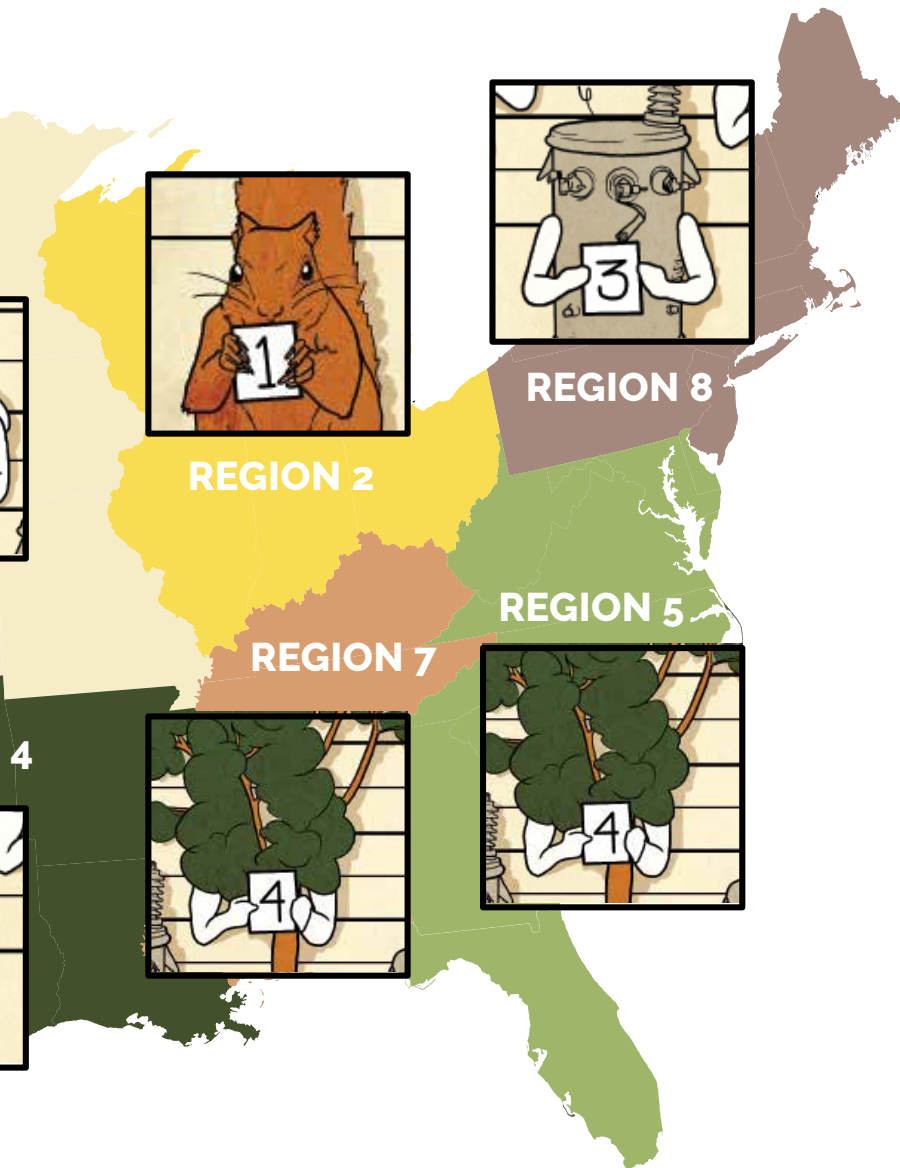


www.ConduxTescmec.com
1-888-980-1209


TOP CAUSES FOR P



POWER OUTAGES



Region	Top Sustained Outage Cause
1	Equipment
2	Squirrel
3	Weather
4	Equipment
5	Tree
6	Storm
7	Tree
8	Equipment Replacement
9	Equipment



AMERICAN
**PUBLIC
POWER**[™]
ASSOCIATION
ACADEMY



FIND YOUR
COMMUNITY



SHARE



PREPARE



LEARN



CONNECT

The American Public Power Association's Academy is your utility's one-stop shop for in-depth, public power focused training in

- Leadership & Governance
- Engineering & Operations
- Business & Finance
- Legal & Regulatory
- Customer Service & Communications

2017 Calendar

**Accounting and Finance
Spring Meeting**
Apr 20 – 21, Arlington,
Virginia

**Public Power
Lineworkers Rodeo**
May 5 – 6, San Antonio,
Texas

**Engineering & Operations
Technical Conference**
May 7 – 10, San Antonio,
Texas

Spring Education Institute
May 15-19, Minneapolis,
Minnesota

**National Conference
& Public Power Expo**
Jun 16 – 21, Orlando, Florida

**Business & Financial
Conference**
Sept 17 – 20, Nashville,
Tennessee

Fall Education Institute
Oct 2 – 6, Charleston,
South Carolina

**Public Power
Leadership Workshop**
Oct 4 – 6, Charleston,
South Carolina

**Legal & Regulatory
Conference**
Oct 8 – 11, New Orleans,
Louisiana

**Customer Connections
Conference**
Nov 5 – 8, Sacramento,
California

Webinars
Webinars are offered
throughout the year. Visit
APPAAcademy.org for a
complete listing.

In-House Training
Our in-house training
program can bring any of our
popular courses to your
facility or customize training
for staff from any of your
departments. We cover utility
governance, engineering and
operations, safety, account-
ing, customer service, and
more.

Contact EducationInfo
@PublicPower.org.

INSIGHTS

WASHINGTON REPORT • INNOVATION • WORKFORCE • GOING PUBLIC • SECURITY • LAST WORD

WASHINGTON REPORT

Pole Attachments: Past, Present and Future

The world may be going digital, and fast, but all that data has to travel through something — either through a wire or over airwaves transmitted by a wireless device, both of which might be attached to a utility pole. Given the move to wireless connectivity, communications companies have a strong interest in placing 5G wireless equipment on existing utility poles to offer truly high-speed mobile broadband.

Public power utilities recognize the need for high-speed broadband infrastructure in their communities and are working with wireless companies to facilitate deployment. But there are concerns about how and where wireless pole attachments are installed. These installations may present unique safety and reliability challenges.

It is very likely that communication companies will lobby the federal government to implement policies that would facilitate the placement of 5G infrastructure. As part of that advocacy effort, it is possible the wireless industry may ask Congress to eliminate the municipal exemption included in the Communications Act, which precludes the Federal Communications Commission from regulating attachments to public power poles and leaves regulation at the local level.

Congress granted this exemption to public power utilities, as well as electric cooperatives, because they are consumer owned, not-for-profit, and accountable to their customers. Communications companies with concerns about rates or the make-ready process can go directly to a utility board or to the city council and seek redress at the local level.

The American Public Power Association is focused on preserving the municipal exemption and advocates on pole attachment issues before Congress and the FCC. Learn more about what you can do by visiting PublicPower.org/Legislation.

Timeline

1978 — Congress passed the Pole Attachment Act to require subsidized rates for cable attachments to poles

2009 — Congress directed the FCC to develop a National Broadband Plan

2010 — The FCC issued the National Broadband Plan

2011 — The FCC approved its pole attachment order, ignoring serious concerns of utilities

2015 — The House Energy & Commerce Committee's Communications & Technology Subcommittee marked up draft legislation to streamline the requirements for obtaining rights of way on federal lands to deploy broadband communications that would have also laid the groundwork to repeal the municipal exemption (the legislation was never marked up in full committee)

2017 — The FCC reiterated its desire for Congress to eliminate the municipal exemption in a white paper that was later officially withdrawn

INNOVATION

The Next Generation of Energy Efficiency Ambassadors

BY PHIL BISESI, ELECTRICITIES OF NORTH CAROLINA, AND STEVE ANDERSON, CITY OF NEW BERN

At New Bern High School in North Carolina, Sandy Parker's ninth-graders collect electricity data on a daily basis to see the correlation for

a hypothesis they formed at the beginning of an experiment.

"I wanted them to put that data into a spreadsheet, or use the app on their phones where

[the spreadsheet] was generated automatically to manipulate the data," Parker said in a YouTube video about the experiment. "We had a lot of technology skills — in addition to being scientists, and finally to being presenters of their work."

The experiment is part of E-Tracker, a hands-on energy education curriculum for high school students. The project was awarded seed funding by the American Public Power Association's Demonstration of Energy & Efficiency Developments program in 2013.

Since then, E-Tracker has been deployed 16 times in 13 member cities — Rocky Mount, Wilson and New Bern have deployed it twice. The assignment is challenging, and teachers like that it makes their students think critically about how the weather can influence how fast the electric meter spins.

Jackson Boyd, a New Bern student, said the E-Tracker was an eye-opener. It helped him envision the future.

"I noticed that when it was colder, my electricity use went up a lot," he said. "When I grow up, I want to be a particle physicist, and this project helped me learn what it is like to take up data. It was really fun, and I hope one day I can apply this to particle physics."

Students had to read their electric meters and monitor daily high and low temperatures for 30

days. They then had to analyze the correlation between daily electric use and degree days, using a template spreadsheet. Students also measured the electric use of household appliances like refrigerators, televisions, and cell phone chargers using a Kill-A-Watt meter.

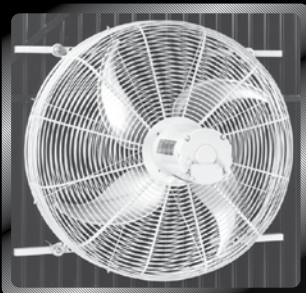
The city of New Bern — while implementing a strategic plan — heard positive feedback from customers about the value they see in their community-owned utilities, the importance of communication, and strong support for city staff actively partnering with the community.

E-Tracker is a favorite among New Bern employees as it helps to educate the community's future generations. Students share the conservation information they learn with their parents and other family members — extending the community reach and impact of the project.

Resource management and energy conservation are significant issues, and education is the key to tackling this challenge — together with the utility's customers.

LEARN MORE about DEED funding opportunities by visiting PublicPower.org/DEED. Public Power utilities can qualify for up to \$125,000.

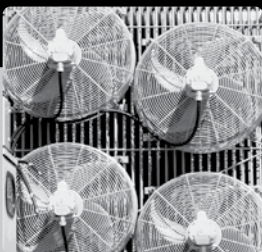
Get Cool!



Extend transformer life!

Increase transformer capacity up to 166%!

- expert technical assistance
- low sound levels
- energy-efficient motors
- large inventory
- one-piece cast aluminum blades
- galvanized or stainless steel guards



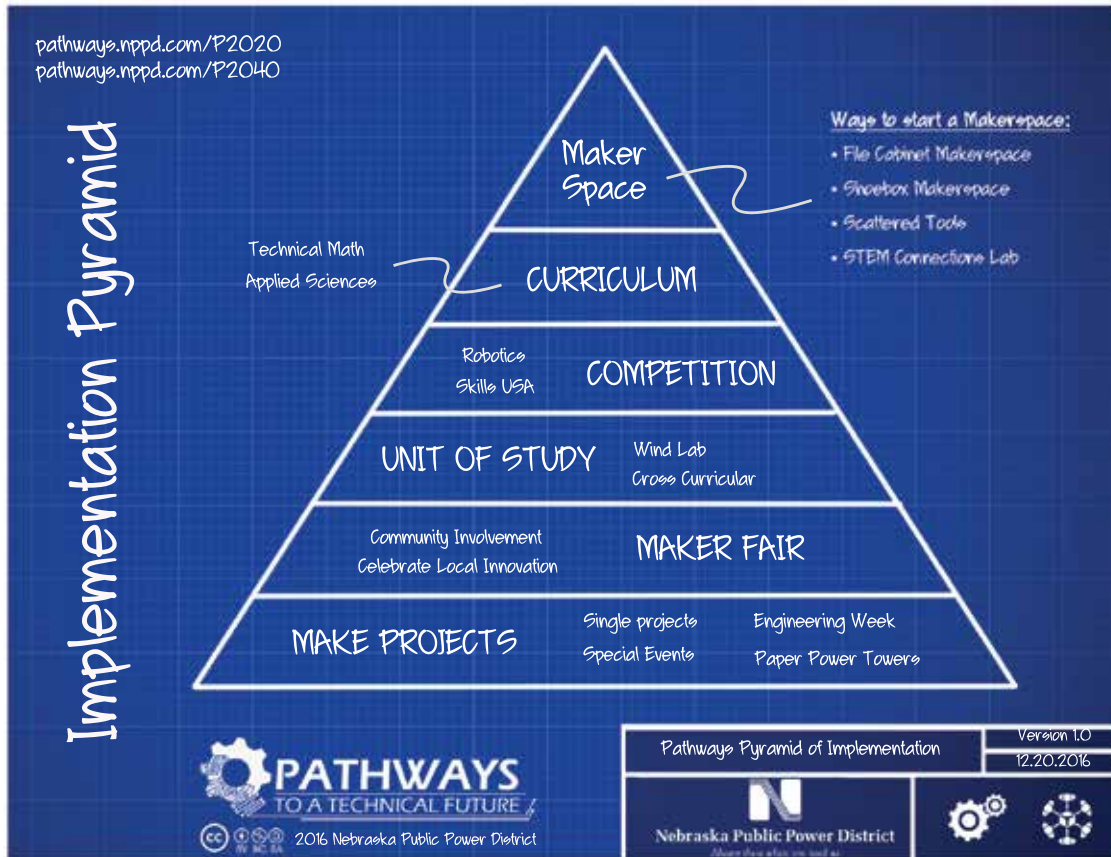
quality engineered, performance tested

p.o. box 187 germantown, wisconsin 53022

262.255.2310

www.krenzvent.com

WORKFORCE



a robotics table to learn logic and programming, and sensor stations to encourage observation. The students got hands-on experience with all of these cutting-edge technologies while exercising their creativity and collaboration.

While the program is focused on middle and high school students and establishes a method for teachers to connect innovative education with application, it is also designed to educate the community. Other public power utilities can replicate the program through the Pathways website.

The website, which hosts interactive instructional resources and career connections, is one of three key components of the project. The project also produced an implementation guide, to demonstrate how utilities can use the resources in combination with local partnerships to provide learning opportunities in their communities, and a speakers bureau guide for community presentations.

Utilities can also create their own Pathways microsite. Just visit the Pathways website, Pathways.NPPD.com, and create a branded section of the site to share with customers and community. According to NPPD's latest progress report filed with DEED, the Consumers Public Power District has already taken advantage of this option.

Paving Pathways to a Powerful Future

Chad Johnson, education specialist at Nebraska Public Power District, showed up to C.L. Jones Middle School in Minden, Nebraska, to play with 3-D printers and robots. What sounds like a bunch of fun is called a STEM lab, designed to prepare these middle schoolers

for careers in science, technology, engineering and math.

NPPD created the STEM lab as part of a project called Pathways to a Powerful Technical Future. The project brings practical skills, such as logic and programming, to students so they can be equipped to be successful in the STEM

workforce. The project was supported by a \$30,000 grant from the American Public Power Association's Demonstration of Energy & Efficiency Developments program.

At C.L. Jones Middle School, students were given access to two 3-D printers to learn prototyping,

GOING PUBLIC

Powering a DIY Culture

MEENA DAYAK, VICE PRESIDENT, INTEGRATED MEDIA & COMMUNICATIONS, AMERICAN PUBLIC POWER ASSOCIATION

Am I a bad mom? I still haven't taught my 14-year-old to ride the bus, go grocery shopping, do her laundry, or vacuum the house on her own. Yet, Shifra is my go-to when I am stumped about how to set up a multistop Uber ride; reminds me to read the

reviews and check the shipping dates before I order on Amazon; and might be an avid user of TaskRabbit — or whatever it evolves into — in a few years.

Quid pro quo. There are just a handful of instances when Shifra has asked me for homework help — with integers and square roots

(aaaah!) — and I could save face, thanks to Khan Academy.

The point is, we live in an increasingly Do-It-Yourself culture. Gen Y has been called the DIY generation. Social media has made this possible, of course. You can learn anything from Pinterest, YouTube, Facebook, or Ikea manuals. You can even generate and store your own electricity.

But why do we DIY? In a culture that's all about ease and efficiency, why would people bother to cook when they can order in? Or brew beer at home when the store around the corner has a sale on six-packs?

The answer is simple. People like DIY because they want to have a stake. They want to invest in creating something. It's not always about saving money. And it's only good if it's not too much trouble.

DIY made easy is what defines the customer of the future. That is what smart businesses are catering to. Blue Apron “makes cooking fun and easy” by delivering measured ingredients, with recipes, to your door. Toms lets customers design their own shoes. Canva allows anyone to be a graphic designer. The iPhone turns you into a photo editor.

Millennials especially are bringing together technology, creativity and entrepreneurship as they take on more DIY projects. Research by Cognizant shows that 4 in 10 millennials are interested in co-creating products with companies.

If people can generate a little bit of their own electricity, and control their consumption and bills, doesn't that give them more of a stake? As Lisa Wood of the Edison Foundation once pointed out to me, the influx of rooftop solar has made people think about their energy use in a way they didn't before.

What then is the role of electric utilities? What if we see ourselves as the great DIY enablers? What if we invest more in keeping people informed and helping them make better energy decisions?

Our public power engineers and professionals should become the Rachael Rays or the Sal Khans of energy so our customers come to us first — for the recipes and formulas, for the tips and tricks.

Empowering DIY demands that we communicate simply, clearly, and extensively — and provide actionable information to our customers. It requires embracing social media. It means getting out of our shells and talking to customers, beyond the bills and outside of outages. It encourages us to nurture online communities where customers share with each other and with us.

Get ready to go viral by giving customers what they want — by supporting DIY with your expertise. Contact our digital and social media director, Sam Gonzales, at SGonzales@PublicPower.org to sign up for our monthly emails with DIY social media tips and tricks.

We've got the lock on affordable security.



Sterling One Shot



Sterling Padlock



Sterling DL-2S-3

STERLING
SECURITY SYSTEMS
A Division Of Engineering Unlimited

(800) 515-4040 | <https://sterlingpadlocks.com>



Share your story
on social using
#PublicPower

SECURITY

A Playbook for Managing the Myths and Facts of Cyberthreats

BY NATHAN MITCHELL, SENIOR DIRECTOR OF ELECTRIC RELIABILITY STANDARDS, AMERICAN PUBLIC POWER ASSOCIATION

No utility wants its name in national headlines linked to a cyberattack, especially when the news is wrong.

Burlington Electric Department in Vermont found itself in this situation in December after the *Washington Post* ran an article titled, “Russian hackers penetrated U.S. electricity grid through a utility in Vermont.” Other news outlets rapidly picked up the story — it spread around the country in minutes. But no media outlets bothered to call BED to verify the information.

On Dec. 29 the Department of Homeland Security issued a national alert about IP addresses and a malware code used in Grizzly Steppe — a Russian campaign linked to recent hacks. The Electricity Subsector Coordinating Council and American Public Power Association helped to distribute the alert.

Burlington responded immediately. “We acted quickly to scan all computers in our system for the malware signature. We detected suspicious internet traffic in a single Burlington Electric Depart-

ment computer not connected to our organization’s grid systems,” BED General Manager Neale Lunderville noted in a message posted on the utility’s website.

The *Washington Post* was the first news outlet to report the discovery on Dec. 31. The newspaper later posted a note that the earlier version of the story was incorrect — there was no indication of a hack penetrating the U.S. electric grid. On Jan. 2, the *Post* reported that as federal officials investigated the suspicious internet activity, they found evidence that the incident was not tied to any Russian government effort to target or hack the utility. All public power utilities can learn from Burlington’s experience with this incident.

Lesson #1: Communicate with the federal government

Burlington Electric Department moved quickly to isolate a single laptop on which the suspicious traffic was detected and report the discovery to the federal government. Cybersecurity requires honoring the industry-govern-

ment partnership in place to share information through appropriate channels.

Lesson #2: Set the record straight

Burlington Electric Department wasted no time in setting the record straight. “We want our community to know that there is no indication that either our electric grid or customer information has been compromised,” the utility said in a Dec. 31 statement. The utility also spoke to the *Post* to get the initial story corrected.

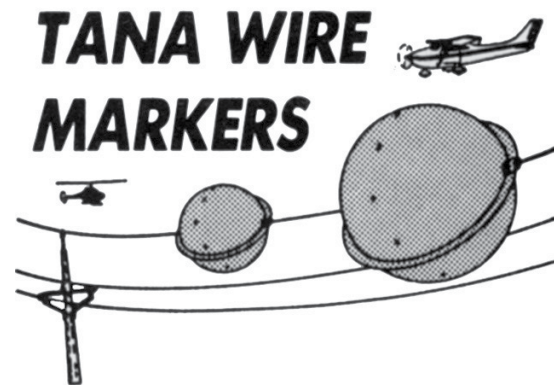
Lesson #3: Reach out to customers and community

Burlington Electric made sure that its customers and community were kept up to date early and often

on the situation through multiple channels, including web and social media. Lunderville and his team leveraged the utility’s website to provide details on the incident.

Lesson #4: Detail ongoing cybersecurity efforts

As details of the incident unfolded, the public power utility underscored the fact it takes the issue of cybersecurity seriously and routinely assesses its systems for vulnerabilities with assistance from outside experts. All utilities should follow Burlington Electric Department’s example and ensure that their cybersecurity efforts take priority.



- Meets FAA Specifications! Color – Size – Shape! – International Orange
- Tested and approved by major power companies!
- Thousands still in service after 40 years
- Universal attaching! Fits any wire .1" to 1"
- Installs in 5 minutes!
- Withstands hail!
- No maintenance! Does not slip, oscillate, chafe, cause electrolysis or harmonic vibration.
- Ships in halves nested. 9, 12, 20, 24, 30, and 36" balls

Call now 573-796-3812 | Fax 573-796-3770

www.tanawiremarker.com

TANA WIRE MARKERS

P.O. Box 370, California, MO 65018

LAST WORD:

TRACY MOORE

FOUNDER, HIGHLINE HERO FOUNDATION

On Aug. 26, 2002, Tracy Moore's life changed forever. She became the widow of a lineman who worked for Lakeland Electric in Lakeland, Florida. Marc Moore was killed in the line of duty. At the time, their two boys were 16 months old and 4 years old. While the years following her husband's death have been full of grief, Moore said she has also been incredibly blessed. Through the Highline Hero Foundation, Moore has not only been able to honor and recognize all lineworkers, but to promote the importance of safety. Moore refers to her journey following her husband's death as her ministry of safety.

How can public power utilities turn your advice into a culture of safety within their organizations?

I feel that sharing my heart and story with lineworkers across our nation is very important and impactful. It gives each audience an entirely different perspective on why their safety is so important. It helps them understand that every decision they make — good or bad — affects those who love them and wait for them to return home.

My presentation also brings awareness that it really can happen to you. Chances aren't worth taking and sometimes, it's the last chance you take. During these presentations, I share the journey I walked as a sister to a lineman who was electrocuted and thankfully survived and the wife of a lineman who unfortunately

was a fatality.

Although it's been almost 15 years since Marc's death, his absence still affects us daily. My boys are 19 and almost 16 now and they still long to know and share life with their dad. Safety begins and ends with each individual and I conclude each meeting with these thoughts: Your safety rules are written because of someone's life or limb. You work in one of the most dangerous professions in our nation, chances can't be taken. Nothing and no one is worth compromising your safety. You aren't just a Highline Hero, you're someone's everything.

How can other public power towns get recognition for their heroes?

I encourage all utilities to recognize their lineworkers and I am happy to help in any way. It is important to recognize our nation's lineworkers; they are the true first responders. Many times whether it's an auto accident, structural fire, or natural disaster, our lineworkers must arrive to make the area safe for our other first responders to do their jobs safely. Lineworkers do not get enough recognition. Although they are usually a tough group, they are also very humble. I've even had them say that they aren't heroes, they're just people doing their jobs. But I strongly disagree. This recognition is well deserved. Appreciation affects morale which in turn affects safety and that affect lives.

Your foundation also helps lineworker families, no matter what the circumstances. How has your foundation helped another lineworker family most recently?

The most recent need has unfortunately been reaching out to families who have lost linemen. Most importantly, I try to be there for emotional support, but it goes beyond that. Anytime a lineworker is injured or killed, my heart breaks, but it's especially personal to me when there are children left behind. I try to put together something special for the children and send each family member a memorial shirt. For example the shirt for the wife or widow reads "My Highline Hero, My Husband, My Guardian Angel." I've helped a lineworker family who lost their home to a fire, bought new climbing boots for a lineman who lost his in a stolen vehicle, gotten school supplies for children in certain tragic situations, donated to lineworker families with terminally ill children. Anything that affects my line family catastrophically affects my heart and I will help if I can. Highline Heroes is non-profit however our 501c3 status is still pending. I feel that once the 501c3 is complete I will be able to grow and bless even more families in need. Anytime you are able to help others, it helps your own heart to heal as well.



Where are you on the journey to getting a National Lineworker Appreciation Day established?

I'm still working toward the goal of having it nationally recognized and I would also like to have our linemen recognized as first responders. It is still my goal to have August 26 be Lineworker Appreciation Day across our nation and I won't stop believing and working toward this goal. August 26 is recorded in Washington as a day of recognition [for lineworkers], along with several other dates as well. My prayer is that someday I will open a calendar to August 26 and see Lineworker Appreciation Day. I am most grateful for my day of recognition and all that really matters to me is that we remember the fallen and honor those still serving, every day.



READ MORE

Learn more about Tracy Moore in an extended interview on PublicPower.org

THE FIRST STEP STARTS WITH FINLEY ENGINEERING



ENERGY

POWER TO THE PEOPLE

Finley provides proven strategies and implementation plans to take you to the future of energy systems. For over 60 years, our engineers have taken pride in designing, engineering, and overseeing construction of electrical power systems to serve customers in the 21st century.

START THE CONVERSATION TODAY!

FINLEYUSA.COM



800-225-9716 | P.O. BOX 148, 104 E. 11TH ST., LAMAR, MO 64759

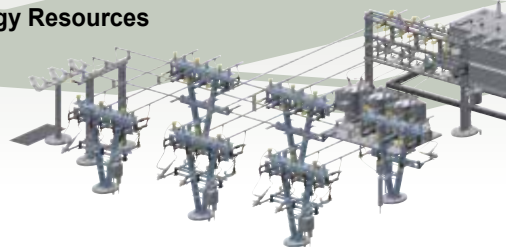
FULL-SERVICE CONSULTANTS

Providing Utility-Wide Engineering and Design SOLUTIONS

- Substation, Protection, and SCADA
- Transmission and Distribution Lines
- System Studies and Power Quality
- Distributed Energy Resources

Serving the industry since 1974

PSE Power System
Engineering, Inc.



Visit our website for information on all of our services: www.powersystem.org or call **866-825-8895**

DDIN[®]

TRANSMISSION & DISTRIBUTION EQUIPMENT

**REDUCE THE RISK OF INJURY WHILE INCREASING PRODUCTIVITY
DDIN TOOLS ARE ENGINEERED FOR TOUGH WORKLOADS
AND TO OUTLAST THE COMPETITION**



**1000 lb. RATED
HANDLINE HOOKS**



**HEX TO SQUARE
IMPACT ADAPTERS**



**HEAVY DUTY
ACSR CUTTERS**

**NOW AVAILABLE AT TALLMAN EQUIPMENT
THE EXCLUSIVE WORLDWIDE DISTRIBUTOR OF DDIN PRODUCTS**



www.tallmanequipment.com

PHONE: 877-860-5666 | INTERNATIONAL: 630-860-5666 | ESPAÑOL: 630-694-5853

things you should KNOW

Michael W. Peters, President/CEO

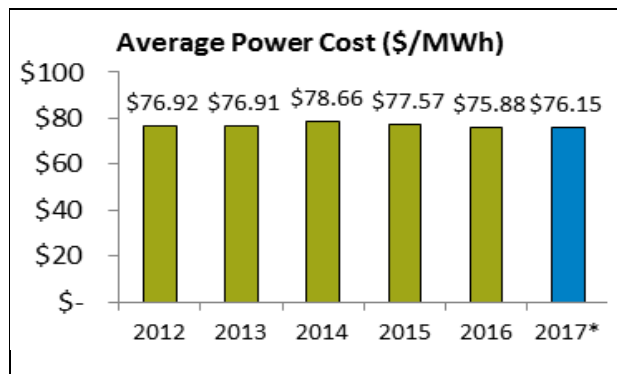
Monthly Wrap-Up for March 2017

Issued April 6, 2017

Things You Should Know is my monthly wrap-up for members of all things related to WPPI Energy. As always, I welcome your feedback. Hearing directly from you is critical to our ability to serve our members. If you have any questions, comments or concerns, please contact me at 608-834-4557 or mpeters@wppienergy.org.

Clean Power Plan. President Trump recently signed an Executive Order to roll back the Clean Power Plan, a regulation put forth by the Obama administration to address global climate change under the Clean Air Act. I have been asked several times if I think this action will have a significant impact to WPPI Energy and change our approach to power supply.

I don't think this will be the case, as WPPI has been operating in an environment of legislative and regulatory uncertainty in the power supply industry for a decade (see timeline at the end of this article). This has led us to pursue a "no regrets" approach to power supply planning, in which we seek to balance cost and environmental impacts, now and over the long term.



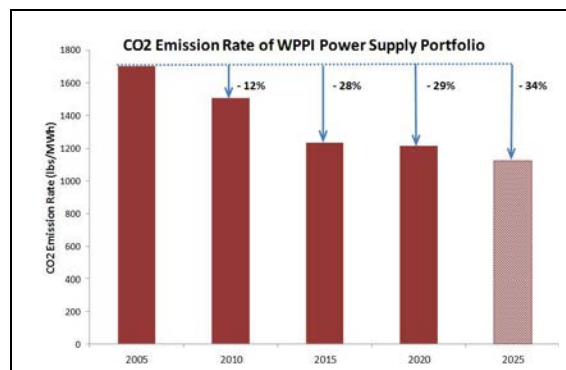
Our recent 20-year solar power purchase agreement with NextEra Energy is a perfect example of this approach. Starting in 2021, we will purchase all the output from their 100-megawatt Point Beach Solar Energy Center, which will be located near Two Rivers, Wis. We project this will make members' power costs lower than they would have been otherwise, while also reducing our emissions.

Our objective has long been to pursue a power supply portfolio that can reasonably accommodate an increased focus on reducing greenhouse gas emissions. Therefore, we will stay the course and work to balance cost and environmental impact when we look to make long-term resource decisions. With the lower cost of natural gas and the declining cost of wind and solar, I believe this is possible.

In fact, looking at our average power cost over the last five years, we have done just that. Our projected average cost for 2017 is lower than our actual cost in 2012.

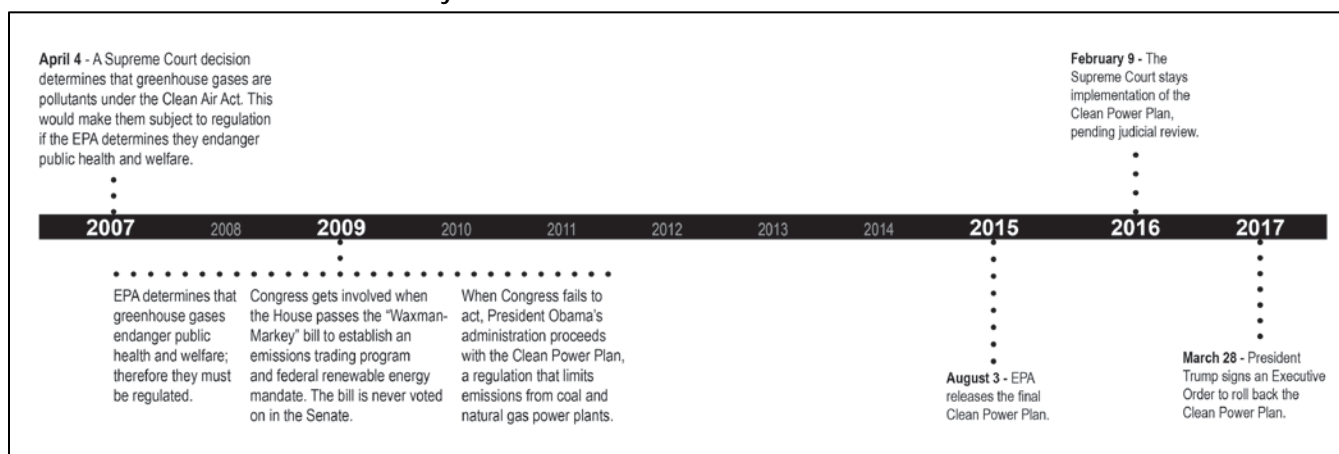
We anticipate a projected reduction in greenhouse gas emissions of 34% between 2005 and 2025, due largely to wind purchases in 2007-2008, the Point Beach nuclear purchase in 2011 and the Point Beach solar purchase that will start in 2021.

WPPI Energy is positioned very well to meet our members' power supply needs cost-effectively and to continue reducing our emissions, as we have over the last five years.



Going forward, I guarantee the political pendulum will swing many times. And regardless of who is in the White House or Congress, WPPI Energy will be positioned to uphold our mission to provide member utilities with reliable, low-cost electricity, best-in-class services and effective advocacy, making our member communities better places to live, work and play.

Timeline of Clean Power Plan Activity



Technology Updates.

Two main areas of focus identified in the 2017-2021 WPPI Energy Business Plan are technology and meeting evolving customer expectations. We have been taking steps to move forward with initiatives that will help us address these areas of focus. Some highlights include:

- **MyMeter** - At their last meeting, the Executive committee approved a 5-year contract with Accelerated Innovations (AI) the company that develops MyMeter. MyMeter will be available to all members using the NorthStar Customer Information System at no additional cost. We are planning to begin rollout at the end of the second quarter/beginning of third quarter of 2017. Here are some details:
 - Customers of members with full AMI will have access to interval data and monthly billing information; those without AMI will have monthly data and billing information available.
 - Bill presentment and bill pay will be available to all members using MyMeter. For members with InfoSend, the bill will be a PDF of the actual customer bill. For members without InfoSend, the bill will be a representation of the actual bill.
 - Members will be able to choose to use Paymentus or PSN for their bill payment processor.

- Each member will have their own unique MyMeter site; rollout will include site set-up and member staff training.
- **mCare Pilots** - mCare, NorthStar's add-on product for mobile service orders and mass meter exchange, is currently being piloted by Kaukauna Utilities and Cedarburg Light and Water. These members have incorporated mCare into their business processes and are providing feedback. Sun Prairie Utilities plans to implement mCare the week of April 17 and three additional members have expressed interest in piloting the product.
- **NorthStar Boot Camp** - WPPI Energy will host a NorthStar 'boot camp' training session in May. Topics will include advanced navigation (quick access icons), NorthStar setups, cashiering and credit control, write-offs and debt collectors, meter reading and billing and a deep dive of NorthStar features and functions.

High Participation Leads to Lower Member Cost for Bill Print Service. Because of high participation in the WPPI Energy Bill Print Outsourcing & Integrated Messaging Service, the cost for the service has dropped for all participating members. The WPPI Energy membership reached a monthly volume of \$125,000, which caused the per piece price to drop from \$.11 to \$.105. Twenty-nine members now participate in the service, which started in 2010. The service provides participating members with outsourced bill printing, delivery and archival, as well as targeted marketing messages and materials managed by the WPPI Energy IT and Marketing staff.

Members Attend WPPI Energy Orientation. On March 30 and 31, WPPI Energy hosted the staff of Lake Mills Light & Water, Waterloo Utilities, Jefferson Utilities and Oconomowoc Utilities for a special orientation and tour. Members were able to split their staff up on each day to allow staff to attend while keeping the utility business running. In total, 31 staff members enjoyed learning about WPPI Energy's robust and diverse power supply, services and advocacy efforts and taking a tour of the facility and Systems Operations center. This was the first time WPPI Energy has done something in this format and it went great. Contact Kayla Pierce if you would be interested in bringing staff to the building for this type of event in the future! We are more than happy to coordinate. WPPI Energy continues to offer the Orientation-on-the-Go format in which we can bring the presentation right to your community. Coming up on Tuesday, May 23, is the regularly scheduled Orientation to WPPI Energy from 8:30 a.m. - 12:30 p.m. Any member utility employees, officials, and governing body leaders are encouraged to attend. Visit <https://wppienergy.org/orientation> for details or contact Kayla Pierce, kpierce@wppienergy.org

Staff Updates. We welcomed three new employees to the WPPI Energy team in March:

- Mar. 20: David Edwards, CIS Support Analyst I
- Mar. 21: Patricia Lancaster, Legal Counsel (part-time)
- Mar. 27: Amy Enfelt, CIS Support Analyst I

I am always open to suggestions and feedback from WPPI Energy members. If you have any questions, comments or concerns about WPPI Energy or the updates I have provided here, please don't hesitate to contact me at 608-834-4557 or mpeters@wppienergy.org.

Start Saving WITH A SMART THERMOSTAT



A smart thermostat is a Wi-Fi enabled device that “learns” your habits to help you manage home heating and cooling costs. It adjusts your HVAC equipment based on your home’s unique energy profile and the weather outside. You can save energy and money without sacrificing comfort. A smart thermostat saves up to \$120 annually and typically pays for itself in two years.

Earn a \$25
bill credit
today!

For a limited time Stoughton Utilities residential electric customers can purchase a new, currently-qualified Smart Thermostat and earn a \$25 rebate from the utility. To receive your incentive please fill out the form below including proof of purchase and the model number.

You may also be eligible for an additional \$75 dollars from Focus on Energy. Apply for an incentive and view program requirements at FocusonEnergy.com/smart.



SMART THERMOSTAT REBATE

Program runs through 12/1/2017 or until funds are exhausted. Smart thermostat models must be one of the following:

Honeywell: RCH9300WF RCH9310WF TH8732WF RCHT8610WF TH6220WF2006 TH6320WF2003

Radio Thermostat: CT50 CT50e CT80

Allure Energy Eversense Ecobee EB-STATE3-01 Ecobee EB-STATE3-02

Lennox iComfort S30 Nest 2nd Generation Nest 3rd Generation

Customer Name (first, last)

Phone

Customer address

City, State

Zip Code



Please include with this form: proof of purchase with model number. For questions, call the utility or visit stoughtonutilities.com. Rewards are not retroactive to smart thermostats purchased prior to 01/01/2017.

stoughtonutilities.com • (608) 873- 3379



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017
To: Stoughton Utilities Committee
From: Robert P. Kardasz, P.E.
Stoughton Utilities Director
Subject: Stoughton Utilities Committee Annual Calendar

The following calendar is provided for information and discussion.

April 17, 2017	Regular Meeting – Goals discussion, PSC annual reports presentation
April 18, 2017	National Lineman Appreciation Day
April 25, 2017	Common Council Meeting - Approve the Stoughton Utilities Utility Billing Statement Messages and Inserts Policy.
May 1, 2017	WPPI Energy Regional Power Dinner Meeting in Evansville
May 7-13, 2017	Drinking Water Week
May 15, 2017	Regular Meeting - First Regular Meeting after the Common Council Reorganization Meeting - Elect Committee Chair and Vice Chair - Elect Committee Liaison and Alternate Liaison - Establish Meeting Time and Monthly Meeting Date – Goals discussion
June 6, 2017	WPPI Energy orientation in Sun Prairie
June 7-9, 2017	American Water Works Association (AWWA) National Conference in Chicago, IL
June 12-16, 2017	American Public Power Association (APPA) National Conference in Phoenix, AZ
June 19, 2017	Regular Meeting - Approve and recommend the Wastewater Compliance Maintenance Annual Report (CMAR) and Resolution to the Common Council - Tour Well No. 5

June 27, 2017	Common Council Meeting - Approve the CMAR
June 28-30, 2017	Municipal Electric Utilities of Wisconsin (MEUW) Annual Conference in Madison
July 17, 2017	Regular Meeting - Approve the Stoughton Utilities RoundUp Donation - Tour Stoughton Utilities Building
August 14, 2017	Regular Meeting - Approve Declaration(s) of Official Intent - Tour the Wastewater Treatment Facility
August 17, 2017	Wisconsin Rural Water Exposition in Plover
September 13-15, 2017	Wisconsin Waterworks Association (AWWA) Annual Conference in Wisconsin Dells
September 13-15, 2017	WPPI Energy (WPPI) Annual Conference in Madison
September 18, 2017	Regular Meeting - Approve the Stoughton Utilities 2018 Budget including the maintenance of market rates, and Stoughton Utilities Five Year (2018-2022) Capital Projects Program and recommend it to the Stoughton Common Council
September 28, 2017	Stoughton Utilities Public Power Celebration
October 5, 2017	Common Council Budget Workshop
October 10-13, 2017	Wisconsin Wastewater Operators Association Annual Conference in Wisconsin Dells
October 16, 2017	Regular Meeting - Tour West Electric Substation
October 26, 2017	Stoughton Utilities 2018 Budget and CIP presentation
November 9, 2017	WPPI Energy Orientation in Sun Prairie
November 14, 2017	Common Council action on the Stoughton Utilities 2018 Budget and CIP
November 20, 2017	Regular Meeting
December 18, 2017	Regular Meeting
January 16, 2018	Regular Meeting - Stoughton Utilities RoundUp Donation and Declarations of Official Intent
January 17-19, 2018	Municipal Electric Utilities of Wisconsin (MEUW) Superintendents Conference in Wisconsin Dells

February 20, 2018

Regular Meeting - Bad debt write off discussion, approval, and recommendation to the Common Council - Goals discussion

February 26 - 28, 2018

American Public Power Association (APPA) Legislative Rally in Washington, D.C.

February 27, 2018

Common Council Meeting - Approve bad debt write offs



Stoughton Utilities Activities Report March 2017

Administration

Robert P. Kardasz, P.E.
Utilities Director

Customer-driven projects and vegetative management were the focus of the Electric System and Metering Divisions during the month. The Water Division concentrated on scheduled infrastructure replacement projects and emergency response. The Utilities Planning Division coordinated these projects. The Wastewater Division concentrated on projects at the wastewater treatment facility and the sanitary sewer collection system flushing and televising. The Technical Operations Division continued to work with customers to fulfill their financial obligations and addressed a number of technical efforts occurring throughout Stoughton Utilities.

During the month of March, the Utilities Director participated in an American Public Power Association Legislative Rally in Washington, D.C., a Wisconsin Public Service Commission Hearing, a Utilities Committee Meeting, a Common Council Meeting, two Planning Commission Meetings, a number of 2017 Projects Meetings, a Claims Review Meeting, a Work Rules clarification meeting, two Utilities Management Team Meetings, a meeting with an industrial customer regarding an internal issue, two development meetings, numerous external and internal meetings, and addressed numerous present and potential customer inquiries.

Technical Operations Division

Brian R. Hoops
Assistant Utilities Director

Customer Payments: Staff processed 9,348 payments totaling \$1.69 million, including 1,732 checks, 2,389 lockbox payments, 978 credit cards, 1,280 online E-Pay payments, 2,007 automated bank withdrawals, 768 direct bank payments, and \$18,100 in cash.

Delinquent Collections: As of March 1, there were 1,928 active accounts carrying delinquent balances totaling nearly \$322,495, and 79 final-billed accounts carrying delinquent balances totaling over \$14,700. Of the total amount delinquent, \$99,000 was 30 or more days past due.

- Throughout the month of March, we mailed out 10-day notices of pending disconnection to 124 customers with water or wastewater service. An additional 745 past-due notices were mailed to customers that only have electric service.
- On March 22, we delivered automated phone calls to 10 commercial customers providing a 24-hour final notice of pending electric service disconnection.
- An additional 47 automated phone calls were delivered to residential customers providing a 24-hour final notice of pending water service disconnection.
- On March 23, we disconnected water service to five residential customers that remained severely delinquent. All were reconnected after payment was received.

We ended the month of March with \$102,800 remaining 30 or more days past-due. For comparison, 30+ day delinquencies are 8% higher than this time last year (\$94,300).

March marked the final month of winter collections. Wisconsin's Winter Emergency Period, often referred to as the moratorium on residential service disconnection, ends April 15. After that date, utilities statewide may begin to disconnect service to customers who are past due on payment of their electric bills for any period of time, including the winter months. Stoughton Utilities will disconnect all accounts with severely delinquent balances on April 19.

Drinking Water Consumer Confidence Report: Stoughton Utilities issues an annual report describing the quality of the community's drinking water. The purpose of this report is to raise customer's understanding of drinking water sources and its potential contaminants. This report provides an overview of drinking water quality during the 2016 calendar year, during which we conducted tests for hundreds of contaminants.

We are proud to report that Stoughton's drinking water meets or surpasses all federal and local standards set for quality and safety under the Safe Drinking Water Act. The 2016 Consumer Confidence Report (CCR) was finalized and distributed in March, with copies of the CCR posted in several public places, delivered to numerous community organizations, and published online. Notifications that the CCR is available to be viewed are delivered to consumers through the Stoughton Tower Times, temporary and permanent messages on the utility billing statements, temporary and permanent messages on the Stoughton Utilities website homepage, and email messages to those customers enrolled in paperless E-Billing.

Energy Assistance: During the month of March, energy assistance (EA) payments for 30 customers totaling \$7,888 were received from the State of Wisconsin Public Benefits Program and applied to customer accounts to assist low-income customers with their home heating expenses.

EA continues to accept assistance applications from customers through the end of the 2016-17 heating season in May. All eligible customers must reapply for the current heating season, even if they have received assistance in the past. These payments are funded through a mandatory charge on every customer's electric statement.

Information Technology: Numerous information technology projects were completed in March. A new email security gateway was configured and installed to replace our existing unit. The new device is from the same vendor, but is a higher model, offering faster processing and several enhanced features.

A new web security gateway was configured and installed to replace our existing unit. The new device is from the same vendor, and is the same model as our prior unit.

A program to track vehicle mileage and fuel consumption was created for our accounting staff to utilize. This new system also creates an output file specifically formatted for automated import into the computer system used by the Department of Public Works Fleet Maintenance Manager to track vehicle service history and schedule preventative maintenance.

Outage Management Taskforce: Brian is participating in a WPPI Energy Outage Management Taskforce. An outage management system is a software solution that interfaces with a utility's existing GIS, SCADA, metering, and CIS systems to provide a near-realtime response to power outage events.

This taskforce consists of technology and operations employees from other WPPI Energy member utilities, as well as members of WPPI's technology staff. The ultimate goal is to utilize our joint-action resources to create a shared outage management system that participating member utilities can utilize locally. WPPI Energy has earmarked a significant amount for this initiative in their budget for the next three years.

From a customer benefit standpoint, the potential is great. Notifications can be sent to customers when there is an outage, when that outage has been restored, display graphical information about outages online, and dispatch utility linemen quicker. From the utility standpoint, it helps reduce customer contacts during an outage, provides exact statistics of customers affected and duration for mandatory reporting, provides predictive analysis of system modifications, and more.

Residential Customer Incentive Programs: Two new residential customer incentive programs were introduced for 2017. ENERGY STAR® appliance incentives are being offered to customers who purchase new efficient appliances, up to two \$25 incentives per account. We are also collaborating with Focus on Energy to enhance their existing Smart Thermostat incentive, adding an additional \$25 on top of their \$75 incentive, for a total incentive of \$100 towards the purchase of a new smart thermostat.

Both incentives are provided in the form of a bill credit, and are funded through SU's Commitment to Community program. These incentive programs run through December 1, and replace our A/C Tuneup and TreePower incentives, which have seen reduced participation over the past few years.

Incentive details and forms can be found at stoughtonutilities.com/incentives.

SCADA Improvements and Upgrade Project: Work progressed on the planning for our new electric SCADA master software system, as well as hardware and communications improvements at our three substations, and planning for SCADA at the new West substation. The new hardware will be advertised for bids in mid-April, and installation will occur throughout the summer months. Network security improvements will also occur to enhance cybersecurity for this critical infrastructure.

We have been working with OSI, Inc. as the software provider for the master electric SCADA system, which will consist of three separate virtualized machines – the front-end system and data historian server, a secure web server in an isolated DMZ, and a maintenance/development console. It is expected that the new system will be cutover to live status in late-September, 2017.

Security improvements continue to be made to our water and wastewater SCADA systems. A view-only remote console was created that allows staff to access the system for viewing and reporting purposes without interrupting user activities on the operator consoles.

Training and Meetings: All customer service employees attended a webinar hosted by WPPI Energy discussing upcoming modifications to our Customer Information System (CIS) software in preparation for a major version upgrade. The upgrade was completed in mid-March without any significant challenges

Brian participated in a public hearing held by the Wisconsin Public Service Commission (PSC) regarding our rate review application, a teleconference meeting of the WPPI Energy Outage Management Taskforce, and a meeting of the newly formed WPPI Energy Member Services Advisory Group. He also attended the 2017 American Public Power Association (APPA)'s Legislative Rally in Washington D.C., including meetings with Rep. Pocan, and Senators Baldwin and Johnson.

Brian also attended a Utilities Committee meeting, a meeting of the Stoughton City Council, a meeting with advocates for a local developer to discuss a planned future development, a meeting with city staff regarding PPE and clothing policies, several meetings regarding the planned West Substation, and several meetings regarding the ongoing Electric SCADA upgrade project, including a project kickoff teleconference with the selected SCADA head-end software provider.

Carol attended a webinar provided by WPPI Energy and the Wisconsin PSC that served as a roundtable discussion regarding collections and billing practices, and frequently asked questions. This webinar format replaces the annual PSC roundtable meeting with both municipal utilities and IOUs that is held each spring, and allows discussion to be targeted at the smaller sized utilities and our unique challenges.

Lou attended an Information Technology, Security, & GIS seminar hosted by the Wisconsin Section of the American Water Works Association in Oshkosh. This year, the majority of the seminar topics were relating to utility GIS, and were very beneficial.

Water Cross-Connection Inspections: Staff has resumed our annual water cross-connection inspections of residential properties throughout the city. This inspection is mandated by the Wisconsin Department of Natural Resources, which requires that the utility to inspect all residential properties at least once every ten years, and industrial and commercial properties every two to six years, depending upon the type of facility.

SU staff inspects approximately 300 homes per year. Since these inspections are conducted inside the home, we must schedule appointments in advance, as well as perform follow-up inspections to ensure corrective actions are taken. Technical Operations Division staff work with the Water Division to ensure all

notifications are mailed, as well as to schedule and reschedule appointments as customers respond to our mailings. To date, staff has scheduled appointments with approximately 65% of the customers who will be inspected in 2017.

Website Updates: Numerous improvements were made to our public website, employee administrative portal, and *My Account* customer portal during the month of March. Besides bug-fixes and minor feature enhancements, two new pages were created to help customer's analyze their consumption patterns. Both pages were created in response to a customer's request.

The first page is an Annual Comparison, which provides customers with an annual summary of their billing details, payments, and consumption, both in chart and graph formats. This page helps show annual patterns, and better illustrates the results of household changes, including energy efficiency upgrades. This page is available to all customers.

The second page is only available to customers who are enrolled in our optional Time of Day pricing plan. This page provides an annual summary and monthly details, both in chart and graph format, of their on-peak and off-peak consumption and charges. It further compares the actual billed charges to what they would have been charged with standard rates. Analysis is performed to show the customer how much they have saved, or how much extra they have been charged, to help them select the best rate, as well as tailor their consumption patterns.

Electric, Metering, Planning, and Water Divisions

Sean O Grady

Utilities Operations Superintendent

2017 Bucket and Digger Derrick Truck Replacements: Terex out of Waukesha was awarded the contract to supply the new digger derrick truck, and Utility Sales and Service out of Appleton was awarded the contract for the new bucket truck. Both trucks are scheduled to be delivered by the end of the year.

2017 Sanitary Sewer and Water Main Replacements: Bids have been received and are currently under review. We anticipate awarding the contract in late-March, with work to begin in April.

Asplundh Tree Expert Company: Two crews are on site working on tree line clearance work. Most of the work will take place in our rural service territory over the next few months.

Fork Truck: A new unit was ordered to replace a 25-year-old truck. The new truck will have additional lift capacity, which will come in handy for lifting some of our larger 3-phase transformers.

Nordic Ridge: An estimate of electric customer contribution to serve the second phase of the development was forwarded to the owner/developer.

North American Fur Association (NAFA): An estimate of electric customer contribution to serve the first phase of NAFA's proposed new facilities in the Business Park North expansion was forwarded to their corporate offices. Site grading and storm water work is scheduled to begin this month, and steel is tentatively scheduled to be delivered in May.

Rotten Pole Replacement: A three-phase dead-end pole with a three-phase riser was found to have severe rot during our pole inspections. We were fortunate enough to receive the cooperation of a couple of business and customers to de-energize the line, which allowed us to safely replace the pole without live voltage present. The outage lasted approximately 6 hours.

Sustained Winds vs. Trees and Power Lines: Regardless of the line clearance work performed annually, nothing can prepare a utility for sustained wind gust of the type we experienced on March 8. Weak and healthy looking trees did not stand a chance with the wind gusts. The soft ground and shallow tree root systems did not fare well either. Crews responded to several power outages, primarily in the rural area of our service territory.

Uniroyal Fire Protection: A privately owned section of water main located between two buildings near Fourth Street sprung a leak along, along with a privately owned steam line. Uniroyal was unable to isolate the leak for several days, making matters worse. Utility staff assisted with repairs by turning the water system serving the location on and off system several times over a period of several weeks.

We believe the leak has been occurring over the past few months prior to the water surfacing, and could be the reason for the increasing water losses we have been investigating for the past few months.

URD Contract Work: This is the first time in my 31 years that we have been able to start trenching underground electric cables without frost in the ground during the first week of March. With all the projects scheduled for construction this year, we are fortunate that the mild temperatures will allow us to get a jump on the construction season and hopefully able to stay ahead of the demands.

Water Main Leak: A newer water main on Jefferson Street sprung a leak. Crews found a hole in the pipe at the bell joint, approximately the size of a nickel. The bell joint was removed and replaced with a new section of pipe.

Well No. 5: Staff recently completed renovation work inside the pump house and generator room. The work consisted of replacing worn out parts and equipment, piping modifications, painting, and labeling of equipment, switches, and pipes.

Well No. 7 Roof Replacement: Installation will begin next month on a new metal roof to replace the existing shingled roof. The metal roof comes with a 40-year warranty on the material and 10 years on the workmanship.

West Substation Project: Two new substation transformers have been ordered, with delivery expected approximately seven months out. The vendor is CG Power Systems of Washington Missouri.

Wastewater Division

Brian G. Erickson
Stoughton Utilities Wastewater System Supervisor

The wastewater treatment facility processed an average daily flow of 1.004 million gallons with a monthly total of 31.113 million gallons.

2017 Sanitary Sewer Projects: This project came within budget, and construction will begin in April.

2017 Sludge Hauling: We are working with our sludge-hauling contractor for this year's projects. Phil Linnerud has pulled samples for testing. We will have a higher than average amount of sludge to haul this spring because of the early snowfall last year.

Generator Maintenance: Our contractor was on site for a week to perform routine maintenance and load bank testing on all standby generation units.

Lab: Phil Linnerud updated the lab manual to meet the DNR requirements as outlined in the recent laboratory audit.

Miscellaneous Plant projects: We ordered new 10" valves for RAS pumps, are in the process of installing a new butterfly valve and spool piece to the post aeration line, and have mounted the crane in the polymer room to assist with lifting totes. We have also performed the yearly flow meter calibrations, as well as calibration of the gas monitors throughout treatment plant.

Sanitary Sewer Municipal Code Changes: We are working with Strand on new code ordinances for our grease trap program, as well as other changes to conform to the CMOM requirements.

SCADA Dialer: Brian Hoops, Scott Gunsolus, and I are working to review options to resolve nuisance call-outs from the SCADA dialer.

Sewer System Maintenance: Staff continues to work on the sanitary sewer collection system, performing routine televising of the underground mains.

Storm Water Testing: We continue to work with the Department of Public Works to assist them with testing of their stormwater sewers.

Training: Phil Zweep attended wastewater classes to prepare him for his DNR exams, and John Glick attended supervisor classes through CVMIC.

Treatment: We continue to experience settling issues in our primary tanks. I have been working with our local industries, however have not yet had any success in identifying the cause. We have begun pulling random samples from the collection system with the hopes of finding the source of the issue.

Truck Maintenance: We are currently working with the Department of Public Works on reviewing the historical and scheduled truck maintenance for all of the wastewater service vehicles and portable generators.

Energy Services Section of the Planning Division

Cory Neeley

Stoughton Utilities and WPPI Energy Services Representative (ESR)

- I am working with a local grocer to help reduce their energy use. We are considering a new type of fan motor, and have a meeting scheduled to discuss the Stoughton Utilities / WPPI Energy Small Business Program.
- I met with the school district and their contractors to talk about the pool at the Stoughton High School. They are considering adding a system that will help reduce air exchanges and water flow. There could be some significant electric and water consumption savings if implementation of this new system proceeds. The new system would reduce off-peak flows from 1,200 gpm to roughly 750 gpm.
- I attended the Stoughton Chamber of Commerce Lunch and Learn that was held at Stoughton Hospital. A tour of the newly renovated parts of the facility was provided. A discussion was also had with Stoughton Trailers representatives, who informed me that a decision has not yet been regarding the location of their new engineering and administrative building.
- The application deadline for the RFP for Energy Efficiency Program for submissions passed without any projects being submitted.

We were hoping to submit an application for a proposed project at Stoughton Hospital, but numerous details remain to be discussed before the project is ready for bid. This project would include changing from pneumatic to direct digital controls, and integrate with their Building Automation System. Coming off a large renovation, this may take time to implement.

- I will be attending the Sustainable Stoughton Earth Day Fair in April. We have donated a few energy efficient products for their silent auction and drawings.
- The Stoughton School district is again looking at an ice storage system to reduce on-peak usage and demand. This had previously been explored, but was not economically feasible at that time. An upcoming change to our seasonal rate design has caused them to revisit the technology.
- WPPI Energy conducted a system-wide test of all distributed generation, including the standby generator at the Stoughton Wastewater Treatment Facility. Testing was completed without issue, and our tested capacity was measured at 249 kW.

ESR was at Stoughton Utilities on March 7th, 9th, 14th, 16th, 21st, 22nd, 28th, and 30th.

Safety Services Section of the Planning Division

Andrew Paulson

Stoughton Utilities and Municipal Electric Utilities of Wisconsin Regional Safety Coordinator

ACCOMPLISHMENTS

1. Training

- a. Weekly Safety Manual Review
- b. Fork Truck Classroom
- c. Fork Truck Road

2. Audits / Inspections

- a. Field Inspection – Linemen – Outage on 51
- b. Field Inspection – Linemen – Tree Trimming
- c. Utility Walkthrough – General Inspection
- d. WWTP Walkthrough – General Inspection
- e. Wells – General Inspection
- f. Fork Truck Inspections

3. Compliance / Risk Management

- a. Fork Truck Written Program – Annual Review
- b. Noise Measurements of Equipment
- c. Updated Noise Measurements Form
- d. SharePoint

GOALS AND OBJECTIVES

1. Training

- a. Weekly Safety Manual Review
- b. Emergency Action Plan
- c. Hazard Communication
- d. Bloodborne Pathogens

2. Audits / Inspections

- a. Field Inspections
- b. Utility Walkthrough
- c. WWTP Walkthrough
- d. Wells
- e. Water Towers
- f. BBP Kit
- g. HAZCOM Labeling
- h. Evacuation Maps

3. Compliance / Risk Management

- a. HAZCOM Written Program

- b. Emergency Action Plan Written Program
- c. Noise Measurements of Equipment (Electric)
- d. Update SDS's
- e. Keep Uploading Data into SharePoint

RSC was at Stoughton Utilities on March 7th, 14th, and 30th.

Please visit us on our website at www.stoughtonutilities.com to view current events, follow project schedules, view Utilities Committee meeting notices, packets and minutes, review our energy conservation programs, or to learn more about your Stoughton Utilities electric, water, and wastewater services. You can also view your current and past billing statements, update your payment and billing preferences, enroll in optional account programs, and make an online payment using *My Account* online.



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017

To: Stoughton Utilities Committee

From: Robert P. Kardasz, P.E.
Stoughton Utilities Director

Subject: Status of the Stoughton Utilities Committee Recommendation(s) to the Stoughton Common Council

The following items from prior Stoughton Utilities Committee Meeting(s) were acted upon by the Stoughton Common Council:

Business:

- n/a

Consent Agenda:

- Stoughton Utilities Payments Due List Report
- Stoughton Utilities Committee February 20, 2017 Regular Meeting Minutes
- Stoughton Utilities December 2016 and January 2017 Financial Summary
- Stoughton Utilities February 2017 Statistical Information

STOUGHTON UTILITIES

Utility Billing Statement Messages and Inserts

Last Revised: April 6, 2017

Reviewed by the Community Affairs and Council Policy Committee: April 6, 2017

Approved by the Stoughton Utilities Committee: _____, 2017

Approved by the City of Stoughton Common Council: _____, 2017

DRAFT

INFORMATION

This document is the property of Stoughton Utilities, containing information that is considered public policy, and is subject to release pursuant to public records statutes, Wis. Stat. §§ 19.31-19.39. Copying or use of this document in whole or in part is strictly prohibited without prior written permission of Stoughton Utilities.

Introduction

To better serve our customers, it is the goal of Stoughton Utilities (SU) to provide ratepayers with timely information relevant to their utility. To accomplish this goal, SU utilizes numerous communication conduits to convey information, including the monthly utility billing statements that are provided to all customers.

Information is provided using messages contained on the front and back of the utility billing statements, as well as printed materials inserted into the billing statement mailing. This information is then delivered to the customer, either on paper through the United States Postal Mail, or digitally using electronic mail and the *My Account* online customer portal.

Purpose

This policy cannot lay down rules to cover every possible situation. The purpose of this policy is to express SU's philosophy and set forth general guidelines governing the use of SU's billing statements to communicate with its customers. As a regulated utility, SU is bound to the requirements set forth in the Wisconsin Public Service Commission (PSC) Administrative Code and Wisconsin State Statutes; this policy is not intended to supersede any such regulatory rules or requirements.

By adopting this policy, it is SU's intent to ensure communications are timely, relevant, and professionally presented, and are not used in a way that is disruptive to SU's mission of providing quality services in a fiscally responsible manner, offensive to others, or contrary to the best interest of SU and its ratepayers.

Policy

Messages Included on the Utility Billing Statement:

1. Any text, image, symbol, artwork, or logo included on the utility billing statement must be specifically related to SU and its core services of Electric, Water, and/or Wastewater.
2. No offer, advertisement, solicitation, announcement, statement, representation, or other material shall be included on the utility billing statement unless the message meets one or more of the following criteria:
 - a. Demonstrates energy or water conservation methods;
 - b. Conveys safety information on the use of energy;
 - c. Demonstrates methods of reducing ratepayer costs;
 - d. Otherwise directly and substantially benefits ratepayers in regard to the services offered by the utility; or
 - e. Is required by law.
3. No more than three variable, non-permanent messages shall be included on the utility billing statement. Content length and formatting is limited by the format of the billing statement design; messages should be tailored to the appropriate length for the location in which they are desired to be located. One message is presented to the customer on the front of the billing statement, and two messages are presented to the customer on the back of the billing statement.
4. The Utilities Director or their designee shall review the content of all message text to verify the content meets the criteria set forth in this policy, and shall have final approval of the text.
5. Approved message text is to be submitted to the Utilities Billing and Metering Specialist no later than four business days prior to the scheduled mailing of the billing inserts.

Inserts Included with the Utility Billing Statement:

1. At the beginning of each calendar year, SU staff shall establish a tentative schedule of planned bill inserts for the year. This schedule should include all notifications required by the Wisconsin Public Service Commission, Department of Natural Resources, and other regulatory agencies, as well as seasonal energy efficiency advertising campaigns, coordinated marketing efforts, and other SU priorities.
2. All bill inserts are to be professionally designed, with the exception of inserts provided by the Wisconsin Public Service Commission, Department of Natural Resources, or other State of Wisconsin regulatory agency. Inserts shall be designed and printed in full-color to attract the customer's attention, and printed on coated 80# paper, or higher. Whenever possible, inserts should be created with crop marks included.
3. Inserts shall be sized 8.5x11" (letter) or 8.5x3.66" (one-third of a letter page), and folded using a letter fold, or "C-fold."
4. Any images, symbols, artwork, or logos that are included on the insert are to be properly licensed with the appropriate trademark or copyright holder. Licensing must include both digital and print distribution. If required by the owner, licenses are to be transferred to Stoughton Utilities prior to distribution of the insert.
5. If the inserts are to be printed by SU's contracted bill statement print and mail service, the digital copy of the insert is to be provided to the Utilities Billing & Metering Specialist prior to the 25th of the month prior to which the insert is scheduled to be mailed.
6. If inserts are not to be printed by SU's contracted billing statement print and mail service, printed inserts are to be delivered to the contractor prior to the 1st of the month in which the insert is scheduled to be mailed. Each shipped package of inserts should be labeled with Stoughton Utilities name, and include an insert quotation form to be provided by the Utilities Billing & Metering Specialist. Printed inserts can be shipped either folded (see fold requirements above) or unfolded; unfolded inserts will accrue an additional insertion charge.
7. SU shall not charge its ratepayers for any expenditure related to bill inserts unless the insert is specifically related to SU and its core services of Electric, Water, and/or Wastewater, and produces a demonstrated, direct, and substantial benefit for its ratepayers.
8. Any utility billing insert that is funded by utility ratepayers shall meet one or more of the following criteria:
 - a. Demonstrates energy or water conservation methods;
 - b. Conveys safety information on the use of energy;
 - c. Demonstrates methods of reducing ratepayer costs;
 - d. Otherwise directly and substantially benefits ratepayers in regard to the services offered by the utility; or
 - e. Is required by law.
9. For any bill insert that does not meet the requirements for ratepayer funding set forth in section 8, the following shall apply:
 - a. SU shall not include any bill insert that is funded by any entity or person outside of the City of Stoughton municipal governance.
 - b. All bill inserts shall be for informational purposes only, and shall not include language, pictures, or symbols that could be interpreted to:
 - i. Promote, advocate, or endorse a particular cause or position;

- ii. Fundraise, or advertise for paid programs or events; or
 - iii. Solicit for goods, services, or employment; or
 - iv. Advertise or promote any entity or program outside of the City of Stoughton municipal governance.
- c. No more than four bill inserts not funded by ratepayers shall be included in the utility statement mailings during any calendar year, unless approved by the Stoughton Utilities Committee on a case-by-case basis.
- d. The final version of any bill insert, along with documentation of the licensing of any image, artwork, symbol or logo contained within the insert, shall be submitted at least 30 days prior to the 1st day of the month in which the insert is to be mailed. Submissions shall be reviewed by the Utilities Director or their designee for approval, in accordance with the guidelines set forth in this policy.

If the reviewer determines that the content of the insert does not conform to this policy, they shall provide the requester with a written denial and justification for such, and include a copy of this policy.

The submitter can then either modify the insert and resubmit for approval, or request that the denial be reviewed by the Stoughton Utilities Committee at their next regularly scheduled meeting. The committee will then make the final decision to uphold or overturn the denial.

- e. SU shall invoice the requestor of any insert for all costs incurred by SU for the printing and mailing of the insert. These costs shall include, but are not limited to:
 - i. A standard administration fee, set annually by the Utilities Director, to cover the staff costs of review, communication, scheduling, and processing of the insert;
 - ii. Any staff time associated with the insert or mailing in excess of that covered by the standard administrative fee;
 - iii. Design and layout;
 - iv. Image and artwork licensing;
 - v. Printing;
 - vi. Folding and inserting;
 - vii. Postage, if in excess to a standard SU billing statement mailing; and/or
 - viii. Return shipping of unused inserts.



600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017

To: Stoughton Utilities Committee

From: Brian R. Hoops
Stoughton Utilities Assistant Director

Robert P. Kardasz, P.E.
Stoughton Utilities Director

Subject: Utility Billing Statement Messages and Inserts Policy

This item is included on the agenda to continue the discussion about the initial inquiry into whether city informational flyers could be included in the Utility billing statements that was first discussed at the January 17, 2017 meeting of the Stoughton Utilities Committee.

At its February 20, 2017 meeting, the Committee authorized Stoughton Utilities to include non-Utility-related inserts in Stoughton Utilities billing statement mailings, and directed staff to draft a policy regarding inclusion of such materials, with said policy to include language restricting inserts to Stoughton Utilities and other City of Stoughton Departments, ensuring utility ratepayers are not charged for any expenditures for advertising except those conveyed in Wis. Stat. 196.595(2), establishing a methodology for assessing service charges to recoup any Utility expenses, and establishing professional content and design standards.

Due to the nature of the topic, the policy was drafted with both internal and external requirements in mind, and not limited exclusively to city informational flyers. It is staff's recommendation that this be considered a policy exclusive to Stoughton Utilities, and that the CA/CP Committee draft a separate policy regarding their communication priorities and strategies, and expectations of other departments.

A draft policy was presented at the March 20, 2017 meeting of the Stoughton Utilities Committee, and was tabled by the Committee at that time.

The draft policy was reviewed at the April 6, 2017 meeting of the Stoughton Community Affairs / Council Policy Committee, and a motion was made to increase the allowable number of non-utility related inserts from three to four per year. That motion passed, and the change is reflected in the draft policy now presented.

We are requesting that the Stoughton Utilities Committee approve the Stoughton Utilities Utility Billing Statement Messages and Inserts policy, and recommend the Stoughton Common Council approve the Stoughton Utilities Utility Billing Statement Messages and Inserts policy.



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017
To: Stoughton Utilities Committee
From: Robert P. Kardasz, P.E.
Stoughton Utilities Director
Subject: Invitation to attend an Orientation to WPPI Energy

WPPI Energy is offering a half-day educational program about itself and the benefits of joint action. This orientation session will be held on Tuesday, May 23, 2017 from 8:30 am to 12:30 pm at WPPI Energy Corporate Headquarters in Sun Prairie, WI. These orientation sessions are held twice each year.

Topics to be discussed include Stoughton's ownership in WPPI Energy, the value of public power, electric costs and rates, and more.

Please let me know if you are interested in participating and I will take care of your registration. Breakfast and lunch will be provided, and transportation is available, or a mileage allowance will be provided upon request.

Encl.

ORIENTATION TO WPPI ENERGY

Join us for a half-day educational program about our joint action agency. Any member utility employees, officials and governing body leaders are encouraged to attend this information session. In the general session, attendees will learn more about:

- **Ownership in WPPI Energy**
- **Value of public power**
- **Power supply resources and operations**
- **Advocacy/leadership**
- **Programs and support services**
 - » Advanced metering and data management
- » Customer communications
- » Electric costs and rates
- » Electric distribution system services
- » Energy efficiency and renewable energy programs
- **Tour of the building and Systems Operations Center**

Tuesday, May 23

WPPI Energy • Conference Center
1425 Corporate Center Drive • Sun Prairie, WI 53590

8:30 a.m. **Continental Breakfast**
9:00 a.m. **Program**
12:30 p.m. **Lunch**

Interested in attending the orientation?

Simply fill out the RSVP below and return by fax or email to Kayla Pierce at WPPI Energy.

RSVP by Monday Thursday, May 18

FAX:
608-837-0274

EMAIL:
kpierce@wppienergy.org

ONLINE:
www.wppienergy.org/orientation

Utility/Community

Name Title

Name Title

Name Title



The way energy should be

Contact Information

Kayla Pierce
Marketing & Outreach Coordinator
608-834-4537 | Fax: 608-837-0274
kpierce@wppienergy.org

WWW.WPPIENERGY.ORG



WATER, ELECTRIC, OR JOINT UTILITY ANNUAL REPORT

OF

STOUGHTON ELECTRIC UTILITY

PO BOX 383
STOUGHTON, WI 53589-0383

For the Year Ended: DECEMBER 31, 2016

TO

PUBLIC SERVICE COMMISSION OF WISCONSIN

P.O. Box 7854
Madison, WI 53707-7854
(608) 266-3766

This form is required under Wis. Stat. § 196.07. Failure to file the form by the statutory filing date can result in the imposition of a penalty under Wis. Stat. § 196.66. The penalty which can be imposed by this section of the statutes is a forfeiture of not less than \$25 nor more than \$5,000 for each violation. Each day subsequent to the filing date constitutes a separate and distinct violation. The filed form is available to the public and personally identifiable information may be used for purposes other than those related to public utility regulation.

I **Jamin Friedl, Finance and Administrative Manager** of **STOUGHTON ELECTRIC UTILITY**, certify that I am the person responsible for accounts; that I have examined the following report and, to the best of my knowledge, information and belief, it is a correct statement of the business and affairs of said utility for the period covered by the report in respect to each and every matter set forth therein.

Date Signed: **3/22/2017**

Table of Contents

Schedule Name	Page
INTRODUCTORY SECTION	
Signature Page	ii
Identification and Ownership - Contacts	iv
Identification and Ownership - Governing Authority and Audit Information	v
Identification and Ownership - Contract Operations	vi
FINANCIAL SECTION	
Income Statement	F-01
Income Statement Account Details	F-02
Income from Merchandising, Jobbing & Contract Work (Accts. 415-416)	F-03
Revenues Subject to Wisconsin Remainder Assessment	F-04
Distribution of Total Payroll	F-05
Full-Time Employees (FTE)	F-06
Balance Sheet	F-07
Net Utility Plant	F-08
Accumulated Provision for Depreciation of Utility Plant on Utility Plant Financed by Utility Operations or by the Municipality (Acct. 111.1)	F-09
Accumulated Provision for Depreciation of Utility Plant on Contributed Plant in Service (Acct. 111.2)	F-10
Net Nonutility Property (Accts. 121 & 122)	F-11
Accumulated Provision for Uncollectible Accounts-Cr. (Acct. 144)	F-12
Materials and Supplies	F-13
Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 and 251)	F-14
Capital Paid in by Municipality (Acct. 200)	F-15
Bonds (Acct. 221)	F-17
Notes Payable & Miscellaneous Long-Term Debt	F-18
Taxes Accrued (Acct. 236)	F-19
Interest Accrued (Acct. 237)	F-20
Balance Sheet Detail - Other Accounts	F-22
Return on Rate Base Computation	F-23
Regulatory Liability - Pre-2003 Historical Accumulated Depreciation on Contributed Utility Plant (253)	F-25
Important Changes During the Year	F-26
ELECTRIC SECTION	
Electric Operating Revenues & Expenses	E-01
Sales of Electricity by Rate Schedule	E-02
Electric Other Operating Revenues	E-03
Electric Operation & Maintenance Expenses	E-04
Taxes (Acct. 408 - Electric)	E-05
Electric Property Tax Equivalent - Detail	E-06
Electric Utility Plant in Service - Plant Financed by Utility or Municipality	E-07
Electric Utility Plant in Service - Plant Financed by Contributions	E-08
Electric Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality	E-09
Electric Accumulated Provision for Depreciation - Plant Financed by Contributions	E-10
Transmission and Distribution Lines	E-11
Monthly Peak Demand and Energy Usage	E-12
Electric Energy Account	E-13

Table of Contents

ELECTRIC SECTION

Electric Generating Plant Statistics (Large Plants)	E-14
Purchased Power Statistics	E-15
Customer Owned Distributed Energy Resources	E-16
Hydroelectric Generating Plant Statistics (Large Plants)	E-17
Electric Generating Plant Statistics (Small Plants)	E-18
Substation Equipment	E-19
Electric Metering	E-20
Electric Customers Served	E-21
Low Income and Energy Efficiency Programs	E-22
Electric Meter Consumer Adjustment	E-23

Identification and Ownership - Contacts

Utility employee in charge of correspondence concerning this report

Name: Jamin T Friedl, CPA

Title: Finance and Administrative Manager

Mailing Address: 600 S Fourth Street
Stoughton, WI 53589

Phone: (608) 877-7415

Email Address: jfriedl@stoughtonutilities.com

Accounting firm or consultant preparing this report (if applicable)

Name:

Title:

Mailing Address:

Phone:

Email Address:

Name and title of utility General Manager (or equivalent)

Name: Robert P Kardasz, P.E.

Title: Utilities Director

Mailing Address: 600 S Fourth Street
Stoughton, WI 53589

Phone: (608) 877-7423

Email Address: rkardasz@stoughtonutilities.com

President, chairman, or head of utility commission/board or committee

Name: Donna Olson

Title: Mayor

Mailing Address: 381 E Main Street
Stoughton, WI 53589

Phone: (608) 873-6677

Email Address: dolson@ci.stoughton.wi.us

Identification and Ownership - Governing Authority and Audit Information

Utility Governing Authority

Select the governing authority for this utility.

Reports to utility board/commission

Reports directly to city/village council

Audit Information

Are utility records audited by individuals or firms other than utility employees? Yes No

Date of most recent audit report: 01/22/2016

Period covered by most recent audit: 2015

Individual or firm, if other than utility employee, auditing utility records

Name: Jodi Dobson

Title: Partner

Organization Name: Baker Tilly

USPS Address: Ten Terrace Court

City State Zip Madison, WI 53718

Telephone: (608) 240-2469

Email Address: jodi.dobson@bakertilly.com

Identification and Ownership - Contract Operations

Do you have any contracts?

Are any the utility administrative or operational functions under contract or agreement with an outside provider for the year covered by this annual report and/or current year (i.e., operation of water or sewer treatment plant)? **NO**

Income Statement

Particulars (a)	This Year (b)	Last Year (c)	
UTILITY OPERATING INCOME			1
Operating Revenues (400)	15,116,205	15,057,028	2
Operating Expenses:			3
Operation and Maintenance Expense (401-402)	13,101,601	13,098,198	4
Depreciation Expense (403)	869,843	848,328	5
Amortization Expense (404-407)	0	0	6
Taxes (408)	547,469	541,473	7
Total Operating Expenses	14,518,913	14,487,999	8
Net Operating Income	597,292	569,029	9
Income from Utility Plant Leased to Others (412-413)			10
Utility Operating Income	597,292	569,029	11
OTHER INCOME			12
Income from Merchandising, Jobbing and Contract Work (415-416)	0	0	13
Income from Nonutility Operations (417)			14
Nonoperating Rental Income (418)			15
Interest and Dividend Income (419)	92,308	101,749	16
Miscellaneous Nonoperating Income (421)	324,625	220,414	17
Total Other Income	416,933	322,163	18
Total Income	1,014,225	891,192	19
MISCELLANEOUS INCOME DEDUCTIONS			20
Miscellaneous Amortization (425)	(22,160)	(22,160)	21
Other Income Deductions (426)	130,191	124,099	22
Total Miscellaneous Income Deductions	108,031	101,939	23
Income Before Interest Charges	906,194	789,253	24
INTEREST CHARGES			25
Interest on Long-Term Debt (427)	148,417	142,097	26
Amortization of Debt Discount and Expense (428)	110,140		27
Amortization of Premium on Debt--Cr. (429)	10,958	11,972	28
Interest on Debt to Municipality (430)	0	0	29
Other Interest Expense (431)	535	296	30
Interest Charged to Construction--Cr. (432)			31
Total Interest Charges	248,134	130,421	32
Net Income	658,060	658,832	33
EARNED SURPLUS			34
Unappropriated Earned Surplus (Beginning of Year) (216)	18,503,118	17,567,075	35
Balance Transferred from Income (433)	658,060	658,832	36
Miscellaneous Credits to Surplus (434)		300,667	37
Miscellaneous Debits to Surplus--Debit (435)			38
Appropriations of Surplus--Debit (436)		1	39
Appropriations of Income to Municipal Funds--Debit (439)	21,213	23,455	40
Total Unappropriated Earned Surplus End of Year (216)	19,139,965	18,503,118	41

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.

Description (a)	Earnings (216.1) (b)	Contributions (216.2) (c)	Total This Year (d)	
UTILITY OPERATING INCOME	0	0	0	1
Operating Revenues (400)	0	0	0	2
Derived	15,116,205		15,116,205	3
Total (Acct. 400)	15,116,205	0	15,116,205	4
Operation and Maintenance Expense (401-402)	0	0	0	5
Derived	13,101,601		13,101,601	6
Total (Acct. 401-402)	13,101,601	0	13,101,601	7
Depreciation Expense (403)	0	0	0	8
Derived	869,843		869,843	9
Total (Acct. 403)	869,843	0	869,843	10
Amortization Expense (404-407)	0	0	0	11
Derived	0		0	12
Total (Acct. 404-407)	0	0	0	13
Taxes (408)	0	0	0	14
Derived	547,469		547,469	15
Total (Acct. 408)	547,469	0	547,469	16
TOTAL UTILITY OPERATING INCOME	597,292	0	597,292	17
OTHER INCOME	0	0	0	18
Income from Merchandising, Jobbing and Contract Work (415-416)	0	0	0	19
Derived	0		0	20
Total (Acct. 415-416)	0	0	0	21
Interest and Dividend Income (419)	0	0	0	22
INTEREST INCOME	92,308		92,308	23
Total (Acct. 419)	92,308	0	92,308	24
Miscellaneous Nonoperating Income (421)	0	0	0	25
Contributed Plant - Electric		324,625	324,625	26
Total (Acct. 421)	0	324,625	324,625	27
TOTAL OTHER INCOME	92,308	324,625	416,933	28
MISCELLANEOUS INCOME DEDUCTIONS	0	0	0	29
Miscellaneous Amortization (425)	0	0	0	30
Regulatory Liability (253) Amortization	(22,160)		(22,160)	31
Total (Acct. 425)	(22,160)	0	(22,160)	32
Other Income Deductions (426)	0	0	0	33
Depreciation Expense on Contributed Plant - Electric		127,111	127,111	34
MEUW Member Dues	3,080		3,080	35
Total (Acct. 426)	3,080	127,111	130,191	36
TOTAL MISCELLANEOUS INCOME DEDUCTIONS	(19,080)	127,111	108,031	37
INTEREST CHARGES	0	0	0	38
Interest on Long-Term Debt (427)	0	0	0	39
Derived	148,417		148,417	40

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.

Description (a)	Earnings (216.1) (b)	Contributions (216.2) (c)	Total This Year (d)	
Total (Acct. 427)	148,417	0	148,417	41
Amortization of Debt Discount and Expense (428)	0	0	0	42
2016 MRB Debt Expense	110,140		110,140	43
Total (Acct. 428)	110,140	0	110,140	44
Amortization of Premium on Debt--Cr. (429)	0	0	0	45
2013 MRB PREMIUM	10,958		10,958	46
Total (Acct. 429)	10,958	0	10,958	47
Interest on Debt to Municipality (430)	0	0	0	48
Derived	0		0	49
Total (Acct. 430)	0	0	0	50
Other Interest Expense (431)	0	0	0	51
Derived	535		535	52
Total (Acct. 431)	535	0	535	53
TOTAL INTEREST CHARGES	248,134	0	248,134	54
NET INCOME	460,546	197,514	658,060	55
EARNED SURPLUS	0	0	0	56
Unappropriated Earned Surplus (Beginning of Year) (216)	0	0	0	57
Derived	16,683,826	1,819,292	18,503,118	58
Total (Acct. 216)	16,683,826	1,819,292	18,503,118	59
Balance Transferred from Income (433)	0	0	0	60
Derived	460,546	197,514	658,060	61
Total (Acct. 433)	460,546	197,514	658,060	62
Appropriations of Income to Municipal Funds--Debit (439)	0	0	0	63
TAX STABILIZATION PAYMENT	21,213		21,213	64
Total (Acct. 439)	21,213	0	21,213	65
UNAPPROPRIATED EARNED SURPLUS (END OF YEAR)	17,123,159	2,016,806	19,139,965	66

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.

Income Statement Account Details (Page F-02)

Amount of Contributed Plant – Electric (421) does not match the total Additions During Year entered on Electric Utility Plant in Service – Plant Financed by Contributions, please explain fully.

Difference between total contribution revenue and CIAC plant additions is due to the Kettle Park West project. This project was unique in that the utilities purchased the materials required and billed them to the contractor. Through this transaction, the materials were included in the work order which was still in CWIP in the prior year when a significant amount of the revenue was recorded in 421. The variance exists because there was revenue recorded without the same amount capitalized as contributed capital.

Income from Merchandising, Jobbing & Contract Work (Accts. 415-416)

Particulars (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Revenues						1
Revenues (account 415)					0	2
Cost and Expenses of Merchandising, Jobbing and Contract Work (416)						3
Cost of merchandise sold					0	4
Payroll					0	5
Materials					0	6
Taxes					0	7
Total costs and expenses	0	0	0	0	0	8
Net Income (or loss)	0	0	0	0	0	9

Revenues Subject to Wisconsin Remainder Assessment

- Report data necessary to calculate revenue subject to Wisconsin remainder assessment pursuant to Wis. Stat § 196.85(2) and Wis. Admin. Code Ch. PSC 5.
- If the sewer department is not regulated by the PSC, do not report sewer department in data column (d).

Description (a)	Water Utility (b)	Electric Utility (c)	Gas Utility (d)	Sewer Utility (Regulated Only (e)	Total (f)	
Total operating revenues		15,116,205			15,116,205	1
Less: interdepartmental sales		282,529			282,529	2
Less: interdepartmental rents		0			0	3
Less: return on net investment in meters charged to regulated sewer department. (Do not report if nonregulated sewer.)					0	4
Less: uncollectibles directly expensed as reported in water acct. 904 (690 class D), sewer acct. 843, and electric acct. 904 -or- Net write-offs when Accumulated Provision for Uncollectible Accounts (acct. 144) is maintained		14,584			14,584	5
Revenues subject to Wisconsin Remainder Assessment	0	14,819,092	0	0	14,819,092	6

Distribution of Total Payroll

- Amounts charged to Utility Financed and to Contributed Plant accounts should be combined and reported in plant or accumulated depreciation accounts.
- Amount originally charged to clearing accounts as shown in column (b) should be shown as finally distributed in column (c).
- The amount for clearing accounts in column (c) is entered as a negative for account "Clearing Accounts" and the distributions to accounts on all other lines in column (c) will be positive with the total of column (c) being zero.
- Provide additional information in the schedule footnotes when necessary.

Accounts Charged (a)	Direct Payroll Distribution (b)	Allocation of Amounts Charged Clearing Accts. (c)	Total (d)	
Water operating expenses			0	1
Electric operating expenses	804,966	39,525	844,491	2
Gas operating expenses			0	3
Heating operating expenses			0	4
Sewer operating expenses			0	5
Merchandising and jobbing			0	6
Other nonutility expenses			0	7
Water utility plant accounts			0	8
Electric utility plant accounts	155,189	8,149	163,338	9
Gas utility plant accounts			0	10
Heating utility plant accounts			0	11
Sewer utility plant accounts			0	12
Accum. prov. for depreciation of water plant			0	13
Accum. prov. for depreciation of electric plant	944	0	944	14
Accum. prov. for depreciation of gas plant			0	15
Accum. prov. for depreciation of heating plant			0	16
Accum. prov. for depreciation of sewer plant			0	17
Clearing accounts	47,674	(47,674)	0	18
All other accounts			0	19
Total Payroll	1,008,773	0	1,008,773	20

Full-Time Employees (FTE)

- Use FTE numbers where FTE stands for Full-Time Employees or Full-Time Equivalency. FTE can be computed by using total hours worked/2080 hours for a fiscal year. Estimate to the nearest hundredth. If an employee works part time for more than one industry then determine FTE based on estimate of hours worked per industry.
- Example: An employee worked 35% of their time on electric jobs, 30% on water jobs, 20% on sewer jobs and 15% on municipal nonutility jobs. The FTE by industry would be .35 for electric, .30 for water and .20 for sewer.

Industry (a)	FTE (b)	
Water		1
Electric	13.5	2
Gas		3
Sewer		4

Balance Sheet

Assets and Othe Debits (a)	Balance End of Year (b)	Balance First of Year (c)	
ASSESTS AND OTHER DEBITS			1
UTILITY PLANT			2
Utility Plant (101)	28,832,058	27,727,782	3
Less: Accumulated Provision for Depreciation and Amortization of Utility Plant (111)	14,429,877	13,478,533	4
Utility Plant Acquisition Adjustments (117-118)	0	0	5
Other Utility Plant Adjustments (119)	0	0	6
Net Utility Plant	14,402,181	14,249,249	7
OTHER PROPERTY AND INVESTMENTS			8
Nonutility Property (121)	175,670	175,670	9
Less: Accumulated Provision for Depreciation and Amortization of Nonutility Property (122)	157,717	157,717	10
Investment in Municipality (123)	0	0	11
Other Investments (124)	361,850	336,026	12
Sinking Funds (125)	1,135,876	1,057,695	13
Depreciation Fund (126)	25,000	25,000	14
Other Special Funds (128)	680,725	677,904	15
Total Other Property and Investments	2,221,404	2,114,578	16
CURRENT AND ACCRUED ASSETS			17
Cash (131)	8,791,517	6,493,536	18
Special Deposits (134)	0	0	19
Working Funds (135)	0	0	20
Temporary Cash Investments (136)	0	0	21
Notes Receivable (141)	0	0	22
Customer Accounts Receivable (142)	1,526,861	1,449,831	23
Other Accounts Receivable (143)	176,507	205,779	24
Accumulated Provision for Uncollectible Accounts- -Cr. (144)	0	0	25
Receivables from Municipality (145)	376,653	420,393	26
Plant Materials and Operating Supplies (154)	163,294	129,405	27
Merchandise (155)	0	0	28
Other Materials and Supplies (156)	0	0	29
Stores Expense (163)	0	0	30
Prepayments (165)	3,276	2,535	31
Interest and Dividends Receivable (171)	49,995	22,562	32
Accrued Utility Revenues (173)	0	0	33
Miscellaneous Current and Accrued Assets (174)	0	150,770	34
Total Current and Accrued Assets	11,088,103	8,874,811	35
DEFERRED DEBITS			36
Unamortized Debt Discount and Expense (181)	0	0	37
Extraordinary Property Losses (182)	0	0	38
Preliminary Survey and Investigation Charges (183)	0	0	39
Clearing Accounts (184)	0	0	40
Temporary Facilities (185)	0	0	41
Miscellaneous Deferred Debits (186)	625,263	158,933	42
Total Deferred Debits	625,263	158,933	43
TOTAL ASSETS AND OTHER DEBITS	28,336,951	25,397,571	44

Balance Sheet

Liabilities and Othe Credits (a)	Balance End of Year (b)	Balance First of Year (c)	
LIABILITIES AND OTHER CREDITS			1
PROPRIETARY CAPITAL			2
Capital Paid in by Municipality (200)	294,993	25,092	3
Appropriated Earned Surplus (215)	0	0	4
Unappropriated Earned Surplus (216)	19,139,965	18,503,118	5
Total Proprietary Capital	19,434,958	18,528,210	6
LONG-TERM DEBT			7
Bonds (221)	6,250,000	4,460,000	8
Advances from Municipality (223)	0	0	9
Other Long-Term Debt (224)	0	0	10
Total Long-Term Debt	6,250,000	4,460,000	11
CURRENT AND ACCRUED LIABILITIES			12
Notes Payable (231)	0	0	13
Accounts Payable (232)	1,110,911	1,099,336	14
Payables to Municipality (233)	43,639	39,301	15
Customer Deposits (235)	106,064	97,350	16
Taxes Accrued (236)	376,785	370,260	17
Interest Accrued (237)	72,653	36,322	18
Tax Collections Payable (241)	0	0	19
Miscellaneous Current and Accrued Liabilities (242)	103,350	0	20
Total Current and Accrued Liabilities	1,813,402	1,642,569	21
DEFERRED CREDITS			22
Unamortized Premium on Debt (251)	131,571	48,863	23
Customer Advances for Construction (252)	27,141	225,387	24
Other Deferred Credits (253)	679,879	492,542	25
Total Deferred Credits	838,591	766,792	26
OPERATING RESERVES			27
Property Insurance Reserve (261)	0	0	28
Injuries and Damages Reserve (262)	0	0	29
Pensions and Benefits Reserve (263)	0	0	30
Miscellaneous Operating Reserves (265)	0	0	31
Total Operating Reserves	0	0	32
TOTAL LIABILITIES AND OTHER CREDITS	28,336,951	25,397,571	33

Net Utility Plant

- Report utility plant accounts and related accumulated provisions for depreciation and amortization after allocation of common plant accounts and related provisions for depreciation and amortization to utility departments as of December 31.

Particulars (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	
First of Year					1
Total Utility Plant - First of Year	0	27,727,782	0	0	2
	0	27,727,782	0	0	3
Plant Accounts					4
Utility Plant in Service - Financed by Utility Operations or by the Municipality (101.1)		24,962,668			5
Utility Plant in Service - Contributed Plant (101.2)		3,327,327			6
Utility Plant Purchased or Sold (102)					7
Utility Plant Leased to Others (104)					8
Property Held for Future Use (105)		352,664			9
Completed Construction not Classified (106)					10
Construction Work in Progress (107)		189,399			11
Total Utility Plant	0	28,832,058	0	0	12
Accumulated Provision for Depreciation and Amortization					13
Accumulated Provision for Depreciation of Utility Plant in Service - Financed by Utility Operations or by the Municipality (111.1)		12,808,856			14
Accumulated Provision for Depreciation of Utility Plant in Service - Contributed Plant (111.2)		1,621,021			15
Accumulated Provision for Depreciation of Utility Plant Leased to Others (112)					16
Accumulated Provision for Depreciation of Property Held for Future Use (113)					17
Accumulated Provision for Amortization of Utility Plant in Service (114)					18
Accumulated Provision for Amortization of Utility Plant Leased to Others (115)					19
Accumulated Provision for Amortization of Property Held for Future Use (116)					20
Total Accumulated Provision	0	14,429,877	0	0	21
Accumulated Provision for Depreciation and Amortization					22
Utility Plant Acquisition Adjustments (117)					23
Accumulated Provision for Amortization of Utility Plant Acquisition Adjustments (118)					24
Other Utility Plant Adjustments (119)					25
Total Other Utility Plant Accounts	0	0	0	0	26
Net Utility Plant	0	14,402,181	0	0	27

Accumulated Provision for Depreciation of Utility Plant on Utility Plant Financed by Utility Operations or by the Municipality (Acct. 111.1)

Depreciation Accruals (Credits) during the year (111.1):

- Report the amounts charged in the operating sections to Depreciation Expense (403).
- If sewer operations are nonregulated, do not report sewer depreciation on this schedule.
- Report the Depreciation Expense on Meters charged to sewer operations as an addition in the Water Column. If the sewer is also a regulated utility by the PSC, report an equal amount as a reduction in the Sewer column.
- Report all other accruals charged to other accounts, such as to clearing accounts.

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year (111.1)	0	11,973,321	0	0	11,973,321	1
Credits during year						2
Charged Depreciation Expense (403)		869,843			869,843	3
Depreciation Expense on Meters Charged to Sewer					0	4
Salvage		4,236			4,236	5
Adjustment		1,176			1,176	6
Clearing		45,589			45,589	7
Total credits	0	920,844	0	0	920,844	8
Debits during year						9
Book Cost of Plant Retired		79,963			79,963	10
Cost of Removal		5,346			5,346	11
Total debits	0	85,309	0	0	85,309	12
Balance end of year (111.1)	0	12,808,856	0	0	12,808,856	13

Accumulated Provision for Depreciation of Utility Plant on Contributed Plant in Service (Acct. 111.2)

Depreciation Accruals (Credits) during the year (111.2):

- Report the amounts charged in the operating sections to Other Income Deductions (426).
- If sewer operations are nonregulated, do not report sewer depreciation on this schedule.
- Report the Depreciation Expense on Meters charged to sewer operations as an addition in the Water Column. If the sewer is also a regulated utility by the PSC, report an equal amount as a reduction in the Sewer column.
- Report all other accruals charged to other accounts, such as to clearing accounts.

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year (111.2)	0	1,505,212	0	0	1,505,212	1
Credits during year						2
Charged Other Income Deductions (426)		127,111			127,111	3
Depreciation Expense on Meters Charged to Sewer					0	4
Salvage		0			0	5
Total credits	0	127,111	0	0	127,111	6
Debits during year						7
Book Cost of Plant Retired		11,302			11,302	8
Cost of Removal		0			0	9
Total debits	0	11,302	0	0	11,302	10
Balance end of year (111.2)	0	1,621,021	0	0	1,621,021	11

Net Nonutility Property (Accts. 121 & 122)

- Report separately each item of property with a book cost of \$5,000 or more included in account 121.
- Other items may be grouped by classes of property.
- Describe in detail any investment in sewer department carried in this account.

Description (a)	Balance First of Year (b)	Additions During Year (c)	Deductions During Year (d)	Balance End of Year (e)	
Nonregulated sewer plant	0			0	1
City Dam	84,212			84,212	2
Leasehold Improvements - Rental	91,458			91,458	3
Total Nonutility Property (121)	175,670	0	0	175,670	4
Less accum. prov. depr. & amort. (122)	157,717			157,717 *	5
Net Nonutility Property	17,953	0	0	17,953	6

Net Nonutility Property (Accts. 121 & 122)

- Report separately each item of property with a book cost of \$5,000 or more included in account 121.
- Other items may be grouped by classes of property.
- Describe in detail any investment in sewer department carried in this account.

Net Nonutility Property (Accts. 121 & 122) (Page F-11)

General Footnote

\$3,660 in depreciation should have been recorded in 2016 but was not. Stoughton will record this amount during calendar year 2017.

Accumulated Provision for Uncollectible Accounts-Cr. (Acct. 144)

	Description (a)	Amount (b)	
Balance first of year		0	1
Additions			2
Provision for uncollectibles during year		0	3
Collection of accounts previously written off: Utility Customers		0	4
Collection of accounts previously written off: Others		0	5
Total Additions		0	6
Accounts Written Off			7
Accounts written off during the year: Utility Customers		0	8
Accounts written off during the year: Others		0	9
Total Accounts Written Off		0	10
Balance End of Year		0	11

Materials and Supplies

Account (a)	Generation (b)	Transmission (d)	Distribution (d)	Other (e)	Total End of Year (f)	Amount Prior Year (g)	
Electric Utility							1
Fuel (151)					0	0	2
Fuel stock expenses (152)					0	0	3
Plant mat. & oper. sup. (154)			163,294		163,294	129,405	4
Total Electric Utility	0	0	163,294	0	163,294	129,405	5

Account	Total End of Year	Amount Prior Year	
Electric utility total	163,294	129,405	1
Water utility (154)			2
Sewer utility (154)			3
Heating utility (154)			4
Gas utility (154)			5
Merchandise (155)			6
Other materials & supplies (156)			7
Stores expense (163)			8
Total Material and Supplies	163,294	129,405	9

Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 and 251)

Report net discount and expense or premium separately for each security issue.

Debt Issue to Which Related (a)	Written Off During Year		Balance End of Year (d)	
	Amount (b)	Account Charged or Credited (c)		
Unamortized debt discount & expense (181)				1
None				2
Total	0		0	3
Unamortized premium on debt (251)				4
2013 MRB	48,863	429	37,905	5
2016 MRB	0	429	93,666	6
Total	48,863		131,571	7

Capital Paid in by Municipality (Acct. 200)

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D, sewer and privates) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Description (a)	Amount (b)	
Balance first of year	25,092	1
Municipal Contribution - Kettle Park West	269,901	2
Balance end of year	294,993	3

Bonds (Acct. 221)

- Report information required for each separate issue of bonds.
- If there is more than one interest rate for an aggregate obligation issue, average the interest rates and report one rate.
- Proceeds advanced by the municipality from sale of general obligation bonds, if repayable by utility, should be included in account 223.
- Enter interest rates in decimal form. For example, enter 6.75% as 0.0675

Description of Issue (a)	Date of Issue (b)	Final Maturity Date (c)	Interest Rate (d)	Principal Amount End of Year (e)	
2013 Mortgage Revenue Bonds	02/15/2013	04/01/2023	3.48%	2,245,000	1
2016 Mortgage Revenue Bonds	05/26/2016	04/01/2036	2.60%	4,005,000	2
Total				6,250,000	3

Notes Payable & Miscellaneous Long-Term Debt

- Report each class of debt included in Accounts 223, 224 and 231.
- Proceeds of general obligation issues, if subject to repayment by the utility, should be included in Account 223.
- If there is more than one interest rate for an aggregate obligation issue, average the interest rates and report one rate.
- Enter interest rates in decimal form. For example, enter 6.75% as 0.0675

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Taxes Accrued (Acct. 236)

Description (a)	Amount (b)	
Balance first of year	370,260	1
Charged water department expense		2
Charged electric department expense	547,469	3
Charged gas department expense		4
Charged sewer department expense		5
Clearing	12,762	6
Total accruals and other credits	560,231	7
County, state and local taxes	370,260	8
Social Security taxes	75,013	9
PSC Remainder Assessment	14,832	10
Gross Receipts Tax	93,601	11
Total payments and other debits	553,706	12
Balance end of year	376,785	13

Interest Accrued (Acct. 237)

- Report below interest accrued on each utility obligation.
- Report customer deposits under account 235.

Description of Issue (a)	Interest Accrued Balance First of Year (b)	Interest Accrued During Year (c)	Interest Paid During Year (d)	Interest Accrued Balance End of Year (e)	
Bonds (221)	0	0	0	0	1
2006 MRB'S	21,266	40,672	61,938	0	2
2013 MRB'S	13,416	48,937	50,513	11,840	3
2016 MRB's		58,808	0	58,808	4
Subtotal Bonds (221)	34,682	148,417	112,451	70,648	5
Advances from Municipality (223)	0	0	0	0	6
None				0	7
Subtotal Advances from Municipality (223)	0	0	0	0	8
Other Long-Term Debt (224)	0	0	0	0	9
None				0	10
Subtotal Other Long-Term Debt (224)	0	0	0	0	11
Notes Payable (231)	0	0	0	0	12
CUSTOMER DEPOSIT	1,640	535	170	2,005	13
Subtotal Notes Payable (231)	1,640	535	170	2,005	14
Customer Deposits (235)	0	0	0	0	15
None				0	16
Subtotal Customer Deposits (235)	0	0	0	0	17
Total	36,322	148,952	112,621	72,653	18

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Description (a)	Balance End of Year (b)	
Other Investments (124)	0	1
Investment in ATC	361,850	2
Total (Acct. 124)	361,850	3
Sinking Funds (125)	0	4
Reserve	649,338	5
Special Redemption	486,538	6
Total (Acct. 125)	1,135,876	7
Depreciation Fund (126)	0	8
Depreciation	25,000	9
Total (Acct. 126)	25,000	10
Other Special Funds (128)	0	11
Plant Maintenance Reserve	508,914	12
Sick Leave Reserve	171,811	13
Total (Acct. 128)	680,725	14
Cash and Working Funds (131)	0	15
Cash	8,791,517	16
Total (Acct. 131)	8,791,517	17
Customer Accounts Receivable (142)	0	18
Electric	1,526,861	19
Total (Acct. 142)	1,526,861	20
Other Accounts Receivable (143)	0	21
Sewer (Non-regulated)		22
Merchandising, jobbing and contract work		23
Miscellaneous	176,507	24
Total (Acct. 143)	176,507	25
Receivables from Municipality (145)	0	26
Interfund Receivable - WRS Unfunded Liability Payoff	376,653	27
Total (Acct. 145)	376,653	28
Prepayments (165)	0	29
Prepaid Insurance	3,276	30
Total (Acct. 165)	3,276	31
Interest and Dividends Receivable (171)	0	32

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Interest Receivable	49,995	33
Total (Acct. 171)	49,995	34
Miscellaneous Deferred Debits (186)	0	35
Deferred Outflows of Resources - Pension	575,914	36
Regulatory Asset - Pension	49,349	37
Total (Acct. 186)	625,263	38
Accounts Payable (232)	0	39
Accounts Payable	1,110,911	40
Total (Acct. 232)	1,110,911	41
Payables to Municipality (233)	0	42
Stormwater Collections	43,639	43
Total (Acct. 233)	43,639	44
Customer Deposits (235)	0	45
Customer Deposits	106,064	46
Total (Acct. 235)	106,064	47
Miscellaneous Current and Accrued Liabilities (242)	0	48
Net Pension Liability	103,350	49
Total (Acct. 242)	103,350	50
Customer Advances for Construction (252)	0	51
Customer Advances for Construction	27,141	52
Total (Acct. 252)	27,141	53
Other Deferred Credits (253)	0	54
Regulatory Liability	155,124	55
Accrued Sales Tax	33,643	56
Accrued Wages and Payroll Withholding	23,711	57
Commitment to Community	26,651	58
Compensated Absences	171,811	59
Deferred Inflows Pension	221,246	60
Miscellaneous	25,183	61
Renewable Energy	7,644	62
Round Up Program	1,018	63
State Energy Assistance	13,848	64
Total (Acct. 253)	679,879	65

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Balance Sheet Detail - Other Accounts (Page F-22)

Explain amounts in Accounts 143, 145 and/or 233 in excess of \$10,000. Provide a short list or detailed description, but do not use terms such as other revenues, general, miscellaneous, or repeat the account title.

- 143 - Amount is related to the Kettle Park West Development - Utility work yet to be reimbursed by developer and TIF funds.
 - 145 - Receivable from municipality for the payoff of Wisconsin Retirement System unfunded liability.
 - 233 - Due to municipality for Storm Water collections.
-

Return on Rate Base Computation

- The data used in calculating rate base are averages.
- Calculate those averages by summing the first-of-year and the end-of-year figures for each account and then dividing the sum by two.
- For municipal utilities, do not include contributed plant in service, property held for future use, or construction work in progress with utility plant in service. These are not rate base components.
- For private utilities, do not include property held for future use, or construction work in progress with utility plant in service. These are not rate base components.

Average Rate Base (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Add Average						1
Utility Plant in Service (101.1)		24,611,778			24,611,778	2
Materials and Supplies		146,349			146,349	3
Less Average						4
Reserve for Depreciation (111.1)		12,391,088			12,391,088	5
Customer Advances for Construction		126,264			126,264	6
Regulatory Liability		166,204			166,204	7
Average Net Rate Base	0	12,074,571	0	0	12,074,571	8
Net Operating Income		597,292			597,292	9
Net Operating Income as a percent of Average Net Rate Base	N/A	4.95%	N/A	N/A	4.95%	10

Regulatory Liability - Pre-2003 Historical Accumulated Depreciation on Contributed Utility Plant (253)

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year	0	177,284	0	0	177,284	1
Credits During Year					0	2
None					0	3
Charges (Deductions)					0	4
Miscellaneous Amortization (425)		22,160			22,160	5
Balance End of Year	0	155,124	0	0	155,124	6

Important Changes During the Year

Report changes of any of the following types:

1. Acquisitions

2. Leaseholder changes

3. Extensions of service

4. Estimated changes in revenues due to rate changes

5. Obligations incurred or assumed, excluding commercial paper
The electric utility issued \$4,005,000 in mortgage revenue bonds during 2016.

6. Formal proceedings with the Public Service Commission

7. Any additional matters

Electric Operating Revenues & Expenses

Description (a)	This Year (b)	Last Year (c)	
Operating Revenues - Sales of Electricity			1
Sales of Electricity (440-448)	14,980,938	14,906,357	2
Total Sales of Electricity	14,980,938	14,906,357	3
Other Operating Revenues			4
Forfeited Discounts (450)	35,433	38,202	5
Miscellaneous Service Revenues (451)	0	0	6
Sales of Water and Water Power (453)	0	0	7
Rent from Electric Property (454)	79,953	81,817	8
Interdepartmental Rents (455)	0	0	9
Other Electric Revenues (456)	19,881	30,652	10
Total Other Operating Revenues	135,267	150,671	11
Total Operating Revenues	15,116,205	15,057,028	12
Operation and Maintenance Expenses			13
Power Production Expenses (500-557)	11,588,139	11,656,672	14
Transmission Expenses (560-573)	0	0	15
Distribution Expenses (580-598)	551,178	534,071	16
Customer Accounts Expenses (901-905)	279,492	254,671	17
Customer Service and Informational Expenses (906)	0	0	18
Sales Expenses (911-916)	0	0	19
Administrative and General Expenses (920-932)	682,792	652,784	20
Total Operation and Maintenance Expenses	13,101,601	13,098,198	21
Other Expenses			22
Depreciation Expense (403)	869,843	848,328	23
Amortization Expense (404-407)			24
Taxes (408)	547,469	541,473	25
Total Other Expenses	1,417,312	1,389,801	26
Total Operating Expenses	14,518,913	14,487,999	27
NET OPERATING INCOME	597,292	569,029	28

Sales of Electricity by Rate Schedule

- Column (i) is the sum of the 12 monthly billed peak demands for all of the customers in each class.
- Column (j) is the sum of the 12 monthly customer (or Distribution) demands for all of the customers in each class.

Type of Sales/Rate Class Title (a)	Rate Schedule (b)	TOD Rate (c)	Demand Rate (d)	Average Number Customers (e)	kWh (f)	On-Peak kWh (g)	Off-Peak kWh (h)	Billed Demand kW (i)	Customer Demand kW (j)	Tariff Revenues (k)	PCAC Revenues (l)	Total Revenues (k+l) (m)
Residential Sales												
Residential	RG-1	N	N	7,717	65,866					7,920,397	(223,620)	7,696,777
Residential	RG-2	Y	N	12	111	35	76			12,166	(229)	11,937
TOTAL				7,729	65,977	35	76	0	0	7,932,563	(223,849)	7,708,714
Commercial & Industrial												
Small Power	CP-1	N	Y	47	13,026			42,407	55,132	1,319,261	(43,985)	1,275,276
Small Power	CP-1 TOD	Y	Y	7	2,482	923	1,559	7,103	8,185	242,527	(7,929)	234,598
Large Power	CP-2	Y	Y	9	10,116	4,368	5,748	25,426	32,621	948,521	(34,008)	914,513
Industrial Power	CP-3	Y	Y	6	31,257	14,697	16,560	84,018	94,612	2,844,637	(101,734)	2,742,903
General Service	GS-1	N	N	833	17,182					2,019,795	(58,232)	1,961,563
General Service	GS-2	Y	N	3	130	51	79			14,733	(648)	14,085
TOTAL				905	74,193	20,039	23,946	158,954	190,550	7,389,474	(246,536)	7,142,938
Lighting Service												
Street Lighting	MS-1	N	N	6	721					131,819	(2,533)	129,286
TOTAL				6	721	0	0	0	0	131,819	(2,533)	129,286
GRAND TOTAL				8,640	140,891	20,074	24,022	158,954	190,550	15,453,856	(472,918)	14,980,938

Does the utility serve any dairy farms? **YES**

Lighting Service - Additional Detail		
Lighting Service	Description	No. of Light
MS-1	High Pressure Sodium - 150 W	21
MS-1	High Pressure Sodium - 250 W	599
MS-1	LED - 150 W	131
MS-1	Mercury Vapor - 250 W	4

Electric Other Operating Revenues

- Report revenues relating to each account and fully describe each item using other than the account title.
- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and all other lesser amounts grouped as Miscellaneous.

Description (a)	Amount (b)	
Forfeited Discounts (450)		1
Customer late payment charges	35,433	2
Total Forfeited Discounts (450)	35,433	3
Miscellaneous Service Revenues (451)		4
None		5
Total Miscellaneous Service Revenues (451)	0	6
Sales of Water and Water Power (453)		7
None		8
Total Sales of Water and Water Power (453)	0	9
Rent from Electric Property (454)		10
Pole Attachment Fees	79,953	11
Total Rent from Electric Property (454)	79,953	12
Interdepartmental Rents (455)		13
None		14
Total Interdepartmental Rents (455)	0	15
Other Electric Revenues (456)		16
Miscellaneous	19,881	17
Total Other Electric Revenues (456)	19,881	18

Electric Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
POWER PRODUCTION EXPENSES					1
STEAM POWER GENERATION EXPENSES					2
Operation Supervision and Engineering (500)			0	0	3
Fuel (501)			0	0	4
Steam Expenses (502)			0	0	5
Steam from Other Sources (503)			0	0	6
Steam Transferred -- Credit (504)			0	0	7
Electric Expenses (505)			0	0	8
Miscellaneous Steam Power Expenses (506)			0	0	9
Rents (507)			0	0	10
Maintenance Supervision and Engineering (510)			0	0	11
Maintenance of Structures (511)			0	0	12
Maintenance of Boiler Plant (512)			0	0	13
Maintenance of Electric Plant (513)			0	0	14
Maintenance of Miscellaneous Steam Plant (514)			0	0	15
Total Steam Power Generation Expenses	0	0	0	0	16
HYDRAULIC POWER GENERATION EXPENSES					17
Operation Supervision and Engineering (535)			0	0	18
Water for Power (536)			0	0	19
Hydraulic Expenses (537)			0	0	20
Electric Expenses (538)			0	0	21
Miscellaneous Hydraulic Power Generation Expenses (539)			0	0	22
Rents (540)			0	0	23
Maintenance Supervision and Engineering (541)			0	0	24
Maintenance of Structures (542)			0	0	25
Maintenance of Reservoirs, Dams and Waterways (543)			0	0	26
Maintenance of Electric Plant (544)			0	0	27
Maintenance of Miscellaneous Hydraulic Plant (545)			0	0	28
Total Hydraulic Power Generation Expenses	0	0	0	0	29
OTHER POWER GENERATION EXPENSES					30
Operation Supervision and Engineering (546)			0	0	31
Fuel (547)			0	0	32
Generation Expenses (548)			0	0	33
Miscellaneous Other Power Generation Expenses (549)			0	0	34
Rents (550)			0	0	35
Maintenance Supervision and Engineering (551)			0	0	36
Maintenance of Structures (552)			0	0	37
Maintenance of Generating and Electric Plant (553)			0	0	38
Maintenance of Miscellaneous Other Power Generating Plant (554)			0	0	39
Total Other Power Generation Expenses	0	0	0	0	40
OTHER POWER SUPPLY EXPENSES					41

Electric Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
Purchased Power (555)		11,549,233	11,549,233	11,631,440	42
System Control and Load Dispatching (556)			0	0	43
Other Expenses (557)		38,906	38,906	25,232 *	44
Total Other Power Supply Expenses	0	11,588,139	11,588,139	11,656,672	45
Total Power Production Expenses	0	11,588,139	11,588,139	11,656,672	46
TRANSMISSION EXPENSES					47
Operation Supervision and Engineering (560)			0	0	48
Load Dispatching (561)			0	0	49
Station Expenses (562)			0	0	50
Overhead Line Expenses (563)			0	0	51
Underground Line Expenses (564)			0	0	52
Miscellaneous Transmission Expenses (566)			0	0	53
Rents (567)			0	0	54
Maintenance Supervision and Engineering (568)			0	0	55
Maintenance of Structures (569)			0	0	56
Maintenance of Station Equipment (570)			0	0	57
Maintenance of Overhead Lines (571)			0	0	58
Maintenance of Underground Lines (572)			0	0	59
Maintenance of Miscellaneous Transmission Plant (573)			0	0	60
Total Transmission Expenses	0	0	0	0	61
DISTRIBUTION EXPENSES					62
Operation Supervision and Engineering (580)	3,431		3,431	6,966	63
Load Dispatching (581)			0	0	64
Station Expenses (582)			0	0	65
Overhead Line Expenses (583)			0	0	66
Underground Line Expenses (584)			0	0	67
Street Lighting and Signal System Expenses (585)			0	3,509	68
Meter Expenses (586)	7,908	11,287	19,195	47,976 *	69
Customer Installations Expenses (587)	109		109	468	70
Miscellaneous Distribution Expenses (588)	61,233	8,987	70,220	58,623 *	71
Rents (589)			0	0	72
Maintenance Supervision and Engineering (590)	21,774		21,774	0 *	73
Maintenance of Structures (591)			0	0	74
Maintenance of Station Equipment (592)	40,987	12,527	53,514	47,284	75
Maintenance of Overhead Lines (593)	198,832	58,785	257,617	272,347	76
Maintenance of Underground Lines (594)	45,800	43,334	89,134	85,741	77
Maintenance of Line Transformers (595)	2,430	229	2,659	2,234	78
Maintenance of Street Lighting and Signal Systems (596)	5,328	997	6,325	2,404	79
Maintenance of Meters (597)	23,942	3,258	27,200	6,519 *	80
Maintenance of Miscellaneous Distribution Plant (598)			0	0	81
Total Distribution Expenses	411,774	139,404	551,178	534,071	82

Electric Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
CUSTOMER ACCOUNTS EXPENSES					83
Supervision (901)			0	0	84
Meter Reading Expenses (902)	3,900		3,900	4,315	85
Customer Records and Collection Expenses (903)	125,557	135,451	261,008	248,349	86
Uncollectible Accounts (904)		14,584	14,584	2,007 *	87
Miscellaneous Customer Accounts Expenses (905)			0	0	88
Total Customer Accounts Expenses	129,457	150,035	279,492	254,671	89
CUSTOMER SERVICE AND INFORMATIONAL EXPENSES					90
Customer Service and Informational Expenses (906)			0	0	91
Total Customer Service and Informational Expenses	0	0	0	0	92
SALES EXPENSES					93
Supervision (911)			0	0	94
Demonstrating and Selling Expenses (912)			0	0	95
Advertising Expenses (913)			0	0	96
Miscellaneous Sales Expenses (916)			0	0	97
Total Sales Expenses	0	0	0	0	98
ADMINISTRATIVE AND GENERAL EXPENSES					99
Administrative and General Salaries (920)	226,233	39,999	266,232	320,666 *	100
Office Supplies and Expenses (921)	164	54,515	54,679	46,455	101
Administrative Expenses Transferred -- Credit (922)			0	0	102
Outside Services Employed (923)		23,697	23,697	48,825 *	103
Property Insurance (924)		30,397	30,397	26,749	104
Injuries and Damages (925)	3,831	32,995	36,826	27,400	105
Employee Pensions and Benefits (926)		198,333	198,333	123,023 *	106
Regulatory Commission Expenses (928)		2,783	2,783	8,842	107
Duplicate Charges -- Credit (929)			0	0	108
Miscellaneous General Expenses (930)		500	500	1,470	109
Rents (931)		11,680	11,680	11,354	110
Maintenance of General Plant (932)	33,507	24,158	57,665	38,000 *	111
Total Administrative and General Expenses	263,735	419,057	682,792	652,784	112
TOTAL OPERATION AND MAINTENANCE EXPENSES	804,966	12,296,635	13,101,601	13,098,198	113

Electric Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Electric Operation & Maintenance Expenses (Page E-04)

Explain all This Year amounts that are more than 15% and \$10,000 higher or lower than the Last Year amount.

557 - This account only includes power purchased from Dunkirk Dam. In 2016, Stoughton Utilities purchased 1,144,000 kWh from Dunkirk Dam while in 2015, Stoughton Utilities only purchased 794,400 kWh from Dunkirk Dam.

586 and 597 - This is simply due to employees coding time more appropriately in 2016 between these two accounts. The total expense for 2016 and 2015 for these two accounts was \$46,395 and \$54,495, respectively. The overall change is below the PSC's required threshold and no further explanation is considered necessary.

588 - The increase is simply due to more hours spent in this area than in 2015. There were no major projects/issues which attribute to the overall increase in this account.

590 - This account is now being utilized by supervisory personnel to account for time overseeing general work done by their teams. This account was not used in 2015.

904 - During 2016 Stoughton Utilities determined it was appropriate to write off approximately \$15,000 in old receivables that mainly related to accident damage that was never collected on. These receivables were written off due to their age and in some instances due to the other party's bankruptcy.

920 - More labor was charged to this account in 2015 due to a promotion to lead lineman and the nature of supervisory work to oversee the Kettle Park West Development. The amounts incurred in 2016 are back in line with 2014.

923 - The change in this account is due to an Electric System Forecast completed by Forster Engineering in 2015.

926 - This was the first year the City of Stoughton was not self-insured and the increase here reflects the true cost of health insurance premiums for the Utilities.

932 - The increase is simply due to more hours spent in this area than in 2015. There were no major projects/issues which attribute to the overall increase in this account.

Taxes (Acct. 408 - Electric)

When allocation of taxes is made between departments, explain method used.

Description of Tax (a)	This Year (b)	Last Year (c)	
Property Tax Equivalent	376,785	370,259	1
Social Security	75,013	71,990	2
Wisconsin Gross Receipts Tax	93,601	98,362	3
PSC Remainder Assessment	14,832	13,596	4
Tax Clearing	(12,762)	(12,734)	5
Total Tax Expense	547,469	541,473	6

Electric Property Tax Equivalent - Detail

- Tax rates are those issued in November (usually) of the year being reported and are available from the municipal treasurer. Report the tax rates in mills to six (6) decimal places.
- The assessment ratio is available from the municipal treasurer. Report the ratio as a decimal to six (6) places.
- The utility plant balance first of year should include the gross book values of plant in service (total of utility financed and contributed plant), property held for future use and construction work in progress.
- An "other tax rate" is included in the "Net Local and School Tax Rate Calculation" to the extent that it is local. An example is a local library tax. Fully explain the rate in the Property Tax Equivalent schedule footnotes.
- **Property Tax Equivalent - Total**
If the municipality has authorized a lower tax equivalent amount, the authorization description and date of the authorization must be reported in the schedule footnotes. If the municipality has NOT authorized a lower amount, leave the cell blank.

COUNTY: DANE(1)

SUMMARY OF TAX RATES

1. State Tax Rate	mills	0.170371
2. County Tax Rate	mills	3.134956
3. Local Tax Rate	mills	8.448321
4. School Tax Rate	mills	11.326907
5. Vocational School Tax Rate	mills	0.969521
6. Other Tax Rate - Local	mills	0.000000
7. Other Tax Rate - Non-Local	mills	0.000000
8. Total Tax Rate	mills	24.050076
9. Less: State Credit	mills	1.839237
11. Net Tax Rate	mills	22.210839

PROPERTY TAX EQUIVALENT CALCULATION

12. Local Tax Rate	mills	8.448321
13. Combined School Tax Rate	mills	12.296428
14. Other Tax Rate - Local	mills	0.000000
15. Total Local & School Tax Rate	mills	20.744749
16. Total Tax Rate	mills	24.050076
17. Ratio of Local and School Tax to Total	dec.	0.862565
18. Total Tax Net of State Credit	mills	22.210839
19. Net Local and School Tax Rate	mills	19.158288
20. Utility Plant, Jan 1	\$	27,727,782
21. Materials & Supplies	\$	129,405
22. Subtotal	\$	27,857,187
23. Less: Plant Outside Limits	\$	8,106,203
24. Taxable Assets	\$	19,750,984
25. Assessment Ratio	dec.	0.995744
26. Assessed Value	\$	19,666,924
27. Net Local and School Tax Rate	mills	19.158288
28. Tax Equiv. Computed for Current Year	\$	376,785

PROPERTY TAX EQUIVALENT - TOTAL

PROPERTY TAX EQUIVALENT CALCULATION

1. Utility Plant, Jan 1	\$	27,727,782
2. Materials & Supplies	\$	129,405
3. Subtotal	\$	27,857,187
4. Less: Plant Outside Limits	\$	8,106,203
5. Taxable Assets	\$	19,750,984
6. Assessed Value	\$	19,666,924
7. Tax Equiv. Computed for Current Year	\$	376,785
8. Tax Equivalent per 1994 PSC Report	\$	118,192
9. Amount of Lower Tax Equiv. as Authorized by Municipality for Current Year (see notes)	\$	
10. Tax Equivalent for Current Year (see notes)	\$	376,785

Electric Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
INTANGIBLE PLANT						1
Organization (301)	0				0	2
Franchises and Consents (302)	0				0	3
Miscellaneous Intangible Plant (303)	0				0	4
Total Intangible Plant	0	0	0	0	0	5
STEAM PRODUCTION PLANT						6
Land and Land Rights (310)	0				0	7
Structures and Improvements (311)	0				0	8
Boiler Plant Equipment (312)	0				0	9
Engines and Engine Driven Generators (313)	0				0	10
Turbogenerator Units (314)	0				0	11
Accessory Electric Equipment (315)	0				0	12
Miscellaneous Power Plant Equipment (316)	0				0	13
Total Steam Production Plant	0	0	0	0	0	14
HYDRAULIC PRODUCTION PLANT						15
Land and Land Rights (330)	0				0	16
Structures and Improvements (331)	0				0	17
Reservoirs, Dams and Waterways (332)	0				0	18
Water Wheels, Turbines and Generators (333)	0				0	19
Accessory Electric Equipment (334)	0				0	20
Miscellaneous Power Plant Equipment (335)	0				0	21
Roads, Railroads and Bridges (336)	0				0	22
Total Hydraulic Production Plant	0	0	0	0	0	23
OTHER PRODUCTION PLANT						24
Land and Land Rights (340)	0				0	25
Structures and Improvements (341)	0				0	26
Fuel Holders, Producers and Accessories (342)	0				0	27
Prime Movers (343)	0				0	28
Generators (344)	0				0	29
Accessory Electric Equipment (345)	0				0	30
Miscellaneous Power Plant Equipment (346)	0				0	31
Total Other Production Plant	0	0	0	0	0	32
TRANSMISSION PLANT						33
Land and Land Rights (350)	1				1	34
Structures and Improvements (352)	0				0	35
Station Equipment (353)	0				0	36
Towers and Fixtures (354)	0				0	37

Electric Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Poles and Fixtures (355)	5,035				5,035	38
Overhead Conductors and Devices (356)	9,984				9,984	39
Underground Conduit (357)	0				0	40
Underground Conductors and Devices (358)	0				0	41
Roads and Trails (359)	0				0	42
Total Transmission Plant	15,020	0	0	0	15,020	43
DISTRIBUTION PLANT						44
Land and Land Rights (360)	220,796				220,796	45
Structures and Improvements (361)	44,389	9,612	1,167		52,834	46
Station Equipment (362)	4,315,695	21,090			4,336,785	47
Storage Battery Equipment (363)	0				0	48
Poles, Towers and Fixtures (364)	2,653,199	130,290	16,888		2,766,601	49
Overhead Conductors and Devices (365)	4,966,731	74,051	19,575		5,021,207	50
Underground Conduit (366)	418,847	18,535			437,382	51
Underground Conductors and Devices (367)	2,241,318	298,047	2,144		2,537,221	52
Line Transformers (368)	2,950,362	122,880	13,620		3,059,622	53
Services (369)	1,440,443	35,972	1,627		1,474,788	54
Meters (370)	657,190	10,441	1,021		666,610	55
Installations on Customers' Premises (371)	0				0	56
Leased Property on Customers' Premises (372)	0				0	57
Street Lighting and Signal Systems (373)	426,807	54,139	23,921		457,025	58
Total Distribution Plant	20,335,777	775,057	79,963	0	21,030,871	59
GENERAL PLANT						60
Land and Land Rights (389)	0				0	61
Structures and Improvements (390)	1,649,974	6,685			1,656,659	62
Office Furniture and Equipment (391)	215,400				215,400	63
Computer Equipment (391.1)	471,130				471,130	64
Transportation Equipment (392)	307,377				307,377	65
Stores Equipment (393)	9,984				9,984	66
Tools, Shop and Garage Equipment (394)	81,791				81,791	67
Laboratory Equipment (395)	60,822				60,822	68
Power Operated Equipment (396)	1,019,002				1,019,002	69
Communication Equipment (397)	92,122				92,122	70
SCADA Equipment (397.1)	0				0	71
Miscellaneous Equipment (398)	2,490				2,490	72
Other Tangible Property (399)	0				0	73
Total General Plant	3,910,092	6,685	0	0	3,916,777	74
Total utility plant in service directly assignable	24,260,889	781,742	79,963	0	24,962,668	75

Electric Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Common Utility Plant Allocated to Electric Department	0				0	76
TOTAL UTILITY PLANT IN SERVICE	24,260,889	781,742	79,963	0	24,962,668	77

Electric Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Electric Utility Plant in Service - Plant Financed by Utility or Municipality (Page E-07)

Additions for one or more accounts exceed \$100,000, please explain.

The majority of the additions in 2016 related to the completion of the Kettle Park West Phase 1 development.

Other additions were routine in nature.

Electric Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
INTANGIBLE PLANT						1
Organization (301)	0				0	2
Franchises and Consents (302)	0				0	3
Miscellaneous Intangible Plant (303)	0				0	4
Total Intangible Plant	0	0	0	0	0	5
STEAM PRODUCTION PLANT						6
Land and Land Rights (310)	0				0	7
Structures and Improvements (311)	0				0	8
Boiler Plant Equipment (312)	0				0	9
Engines and Engine Driven Generators (313)	0				0	10
Turbogenerator Units (314)	0				0	11
Accessory Electric Equipment (315)	0				0	12
Miscellaneous Power Plant Equipment (316)	0				0	13
Total Steam Production Plant	0	0	0	0	0	14
HYDRAULIC PRODUCTION PLANT						15
Land and Land Rights (330)	0				0	16
Structures and Improvements (331)	0				0	17
Reservoirs, Dams and Waterways (332)	0				0	18
Water Wheels, Turbines and Generators (333)	0				0	19
Accessory Electric Equipment (334)	0				0	20
Miscellaneous Power Plant Equipment (335)	0				0	21
Roads, Railroads and Bridges (336)	0				0	22
Total Hydraulic Production Plant	0	0	0	0	0	23
OTHER PRODUCTION PLANT						24
Land and Land Rights (340)	0				0	25
Structures and Improvements (341)	0				0	26
Fuel Holders, Producers and Accessories (342)	0				0	27
Prime Movers (343)	0				0	28
Generators (344)	0				0	29
Accessory Electric Equipment (345)	0				0	30
Miscellaneous Power Plant Equipment (346)	0				0	31
Total Other Production Plant	0	0	0	0	0	32
TRANSMISSION PLANT						33
Land and Land Rights (350)	0				0	34
Structures and Improvements (352)	0				0	35
Station Equipment (353)	0				0	36
Towers and Fixtures (354)	0				0	37

Electric Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Poles and Fixtures (355)	0				0	38
Overhead Conductors and Devices (356)	0				0	39
Underground Conduit (357)	0				0	40
Underground Conductors and Devices (358)	0				0	41
Roads and Trails (359)	0				0	42
Total Transmission Plant	0	0	0	0	0	43
DISTRIBUTION PLANT						44
Land and Land Rights (360)	0				0	45
Structures and Improvements (361)	0				0	46
Station Equipment (362)	0				0	47
Storage Battery Equipment (363)	0				0	48
Poles, Towers and Fixtures (364)	550,720	7,045	5,325		552,440	49
Overhead Conductors and Devices (365)	794,829	18,235	4,123		808,941	50
Underground Conduit (366)	79,411	22,020			101,431	51
Underground Conductors and Devices (367)	756,457	409,150	354		1,165,253	52
Line Transformers (368)	38,101				38,101	53
Services (369)	341,386	7,149	547		347,988	54
Meters (370)	5,312				5,312	55
Installations on Customers' Premises (371)	0				0	56
Leased Property on Customers' Premises (372)	0				0	57
Street Lighting and Signal Systems (373)	96,410	12,654	953		108,111	58
Total Distribution Plant	2,662,626	476,253	11,302	0	3,127,577	59
GENERAL PLANT						60
Land and Land Rights (389)	0				0	61
Structures and Improvements (390)	0				0	62
Office Furniture and Equipment (391)	0				0	63
Computer Equipment (391.1)	0				0	64
Transportation Equipment (392)	2,750				2,750	65
Stores Equipment (393)	0				0	66
Tools, Shop and Garage Equipment (394)	0				0	67
Laboratory Equipment (395)	0				0	68
Power Operated Equipment (396)	194,500				194,500	69
Communication Equipment (397)	0				0	70
SCADA Equipment (397.1)	0				0	71
Miscellaneous Equipment (398)	2,500				2,500	72
Other Tangible Property (399)	0				0	73
Total General Plant	199,750	0	0	0	199,750	74
Total utility plant in service directly assignable	2,862,376	476,253	11,302	0	3,327,327	75

Electric Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Common Utility Plant Allocated to Electric Department	0				0	76
TOTAL UTILITY PLANT IN SERVICE	2,862,376	476,253	11,302	0	3,327,327	77

Electric Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- Explain as a footnote the dollar additions and retirements reported in Columns (c) and (d) for each account over \$100,000(class AB), \$50,000 (class C). If applicable, provide construction authorization.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Electric Utility Plant in Service - Plant Financed by Contributions (Page E-08)

Additions for one or more accounts exceed \$100,000, please explain.

Approximately \$300,000 of the additions in 367 relate to the completion of the Kettle Park West Phase 1 development.

Electric Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	1
STEAM PRODUCTION PLANT									
Structures and Improvements (311)	0							0	2
Boiler Plant Equipment (312)	0							0	3
Engines and Engine Driven Generators (313)	0							0	4
Turbogenerator Units (314)	0							0	5
Accessory Electric Equipment (315)	0							0	6
Miscellaneous Power Plant Equipment (316)	0							0	7
Total Steam Production Plant	0		0	0	0	0	0	0	8
HYDRAULIC PRODUCTION PLANT									
Structures and Improvements (331)	0							0	10
Reservoirs, Dams and Waterways (332)	0							0	11
Water Wheels, Turbines and Generators (333)	0							0	12
Accessory Electric Equipment (334)	0							0	13
Miscellaneous Power Plant Equipment (335)	0							0	14
Roads, Railroads and Bridges (336)	0							0	15
Total Hydraulic Production Plant	0		0	0	0	0	0	0	16
OTHER PRODUCTION PLANT									
Structures and Improvements (341)	0							0	18
Fuel Holders, Producers and Accessories (342)	0							0	19
Prime Movers (343)	0							0	20
Generators (344)	0							0	21
Accessory Electric Equipment (345)	0							0	22
Miscellaneous Power Plant Equipment (346)	0							0	23
Total Other Production Plant	0		0	0	0	0	0	0	24
TRANSMISSION PLANT									
Structures and Improvements (352)	0							0	26
Station Equipment (353)	0							0	27

Electric Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	28
Towers and Fixtures (354)	0							0	28
Poles and Fixtures (355)	7,473	3.03%						7,473	29
Overhead Conductors and Devices (356)	11,893	3.03%						11,893	30
Underground Conduit (357)	0							0	31
Underground Conductors and Devices (358)	0							0	32
Roads and Trails (359)	0							0	33
Total Transmission Plant	19,366		0	0	0	0	0	19,366	34
DISTRIBUTION PLANT									
Structures and Improvements (361)	30,786	1.85%	899	1,167			1,178	31,696	36
Station Equipment (362)	2,762,001	3.45%	149,255					2,911,256	37
Storage Battery Equipment (363)	0							0	38
Poles, Towers and Fixtures (364)	1,312,752	3.83%	103,789	16,888	2,021			1,397,632	39
Overhead Conductors and Devices (365)	1,902,221	3.79%	189,271	19,575	441	298		2,071,774	40
Underground Conduit (366)	72,065	2.50%	10,703		393	51		82,426	41
Underground Conductors and Devices (367)	1,010,772	3.70%	88,067	2,144				1,096,695	42
Line Transformers (368)	1,018,885	3.33%	100,066	13,620	944		3,815	1,108,202	43
Services (369)	841,631	3.67%	53,494	1,627	1,547			891,951	44
Meters (370)	186,895	3.70%	24,490	1,021				210,364	45
Installations on Customers' Premises (371)	0							0	46
Leased Property on Customers' Premises (372)	0							0	47
Street Lighting and Signal Systems (373)	198,368	4.00%	17,677	23,921		57		192,181	48
Total Distribution Plant	9,336,376		737,711	79,963	5,346	4,221	1,178	9,994,177	49
GENERAL PLANT									
Structures and Improvements (390)	808,130	4.00%	55,055					863,185	51
Office Furniture and Equipment (391)	117,669	6.25%	14,001					131,670	52
Computer Equipment (391.1)	191,677	17.15%						191,677	53
Transportation Equipment (392)	210,206	10.00%	18,529					228,735	54

Electric Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
Stores Equipment (393)	7,127	4.00%	499					7,626	55
Tools, Shop and Garage Equipment (394)	81,791	9.09%				15		81,806	56
Laboratory Equipment (395)	35,950	5.26%	3,199					39,149	57
Power Operated Equipment (396)	878,055	10.00%	49,155					927,210	58
Communication Equipment (397)	286,286	10.00%	37,158					323,444	59
SCADA Equipment (397.1)	0							0	60
Miscellaneous Equipment (398)	686	5.00%	125					811	61
Other Tangible Property (399)	0							0	62
Total General Plant	2,617,577		177,721	0	0	15	0	2,795,313	63
Total accum. prov. directly assignable	11,973,319		915,432	79,963	5,346	4,236	1,178	12,808,856	64
Common Utility Plant Allocated to Electric Department	0							0	65
TOTAL ACCUM. PROV. FOR DEPRECIATION	11,973,319		915,432	79,963	5,346	4,236	1,178	12,808,856	66

Electric Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Electric Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality (Page E-09)

Adjustments are nonzero for one or more accounts, please explain.

The adjustment to account 361 was to account for incorrect accounting related to retirements made in 2016.

End of Year Balance is greater than the equivalent Plant in Service (Financed by Utility or Municipality) EOY Balance, please explain.

Accounts 355,356 and 394 are slightly over depreciated. No further depreciation will be taken.

Electric Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	1
STEAM PRODUCTION PLANT									
Structures and Improvements (311)	0							0	2
Boiler Plant Equipment (312)	0							0	3
Engines and Engine Driven Generators (313)	0							0	4
Turbogenerator Units (314)	0							0	5
Accessory Electric Equipment (315)	0							0	6
Miscellaneous Power Plant Equipment (316)	0							0	7
Total Steam Production Plant	0		0	0	0	0	0	0	8
HYDRAULIC PRODUCTION PLANT									
Structures and Improvements (331)	0							0	10
Reservoirs, Dams and Waterways (332)	0							0	11
Water Wheels, Turbines and Generators (333)	0							0	12
Accessory Electric Equipment (334)	0							0	13
Miscellaneous Power Plant Equipment (335)	0							0	14
Roads, Railroads and Bridges (336)	0							0	15
Total Hydraulic Production Plant	0		0	0	0	0	0	0	16
OTHER PRODUCTION PLANT									
Structures and Improvements (341)	0							0	18
Fuel Holders, Producers and Accessories (342)	0							0	19
Prime Movers (343)	0							0	20
Generators (344)	0							0	21
Accessory Electric Equipment (345)	0							0	22
Miscellaneous Power Plant Equipment (346)	0							0	23
Total Other Production Plant	0		0	0	0	0	0	0	24
TRANSMISSION PLANT									
Structures and Improvements (352)	0							0	26
Station Equipment (353)	0							0	27

Electric Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
Towers and Fixtures (354)	0							0	28
Poles and Fixtures (355)	0							0	29
Overhead Conductors and Devices (356)	0							0	30
Underground Conduit (357)	0							0	31
Underground Conductors and Devices (358)	0							0	32
Roads and Trails (359)	0							0	33
Total Transmission Plant	0		0	0	0	0	0	0	34
DISTRIBUTION PLANT									35
Structures and Improvements (361)	0							0	36
Station Equipment (362)	0							0	37
Storage Battery Equipment (363)	0							0	38
Poles, Towers and Fixtures (364)	336,004	3.83%	21,126	5,325				351,805	39
Overhead Conductors and Devices (365)	455,601	3.79%	30,391	4,123				481,869	40
Underground Conduit (366)	8,778	2.50%	2,261					11,039	41
Underground Conductors and Devices (367)	335,447	3.70%	35,552	354				370,645	42
Line Transformers (368)	562	3.33%	1,269					1,831	43
Services (369)	202,012	3.67%	12,650	547				214,115	44
Meters (370)	689	3.70%	197					886	45
Installations on Customers' Premises (371)	0							0	46
Leased Property on Customers' Premises (372)	0							0	47
Street Lighting and Signal Systems (373)	56,156	4.00%	4,090	953				59,293	48
Total Distribution Plant	1,395,249		107,556	11,302	0	0	0	1,491,483	49
GENERAL PLANT									50
Structures and Improvements (390)	0							0	51
Office Furniture and Equipment (391)	0							0	52
Computer Equipment (391.1)	0							0	53
Transportation Equipment (392)	2,750	10.00%						2,750	54

Electric Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
Stores Equipment (393)	0							0	55
Tools, Shop and Garage Equipment (394)	0							0	56
Laboratory Equipment (395)	0							0	57
Power Operated Equipment (396)	106,525	10.00%	19,450					125,975	58
Communication Equipment (397)	0							0	59
SCADA Equipment (397.1)	0							0	60
Miscellaneous Equipment (398)	688	5.00%	125					813	61
Other Tangible Property (399)	0							0	62
Total General Plant	109,963		19,575	0	0	0	0	129,538	63
Total accum. prov. directly assignable	1,505,212		127,111	11,302	0	0	0	1,621,021	64
Common Utility Plant Allocated to Electric Department	0							0	65
TOTAL ACCUM. PROV. FOR DEPRECIATION	1,505,212		127,111	11,302	0	0	0	1,621,021	66

Transmission and Distribution Lines

Enter the miles of distribution and transmission lines in your system. Enter the lines as either distribution or transmission in the same manner in which they are booked for accounting purposes.

Classification (a)	Miles of Line Owned				Total End of Year (f)	
	First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments During Year (e)		
Primary Distribution System Voltage(s) – Urban						1
Pole Lines						2
2.4/4.16 kV (4kV)	0				0	3
7.2/12.5 kV (12kV)	32				32	4
14.4/24.9 kV (25kV)	0				0	5
19.9/34.5 kV (34.5kV)	0				0	6
All Secondary	0				0	7
Secondary (7.2/12.5kV - 12kV)	49				49	8
Underground Lines						9
2.4/4.16 kV (4kV)	0				0	10
7.2/12.5 kV (12kV)	44	3			47	11
14.4/24.9 kV (25kV)	0				0	12
19.9/34.5 kV (34.5kV)	0				0	13
All Secondary	0				0	14
Secondary (7.2/12.5kV - 12kV)	49	1			50	15
Primary Distribution System Voltage(s) – Rural						16
Pole Lines						17
2.4/4.16 kV (4kV)	0				0	18
7.2/12.5 kV (12kV)	66				66	19
14.4/24.9 kV (25kV)	0				0	20
19.9/34.5 kV (34.5kV)	0				0	21
All Secondary	0				0	22
Secondary 7.2/12.5 (12kV)	31				31	23
Underground Lines						24
2.4/4.16 kV (4kV)	0				0	25
7.2/12.5 kV (12kV)	36	1			37	26
14.4/24.9 kV (25kV)	0				0	27
19.9/34.5 kV (34.5kV)	0				0	28
All Secondary	0				0	29
Secondary 7.2/12.5kV (12kV)	30				30	30
Transmission System						31
Pole Lines						32
34.5 kV	0				0	33
69 kV	0				0	34
115 kV	0				0	35
138 kV	0				0	36
Underground Lines						37
34.5 kV	0				0	38
69 kV	0				0	39
115 kV	0				0	40

Transmission and Distribution Lines

Enter the miles of distribution and transmission lines in your system. Enter the lines as either distribution or transmission in the same manner in which they are booked for accounting purposes.

138 kV	0	0	41
--------	---	---	----

Monthly Peak Demand and Energy Usage

- Report hereunder the information called for pertaining to simultaneous peak demand established monthly and monthly energy usage col. (f) kilowatt-hours.
- Monthly peak col. (b) (reported as actual number) should be respondent's maximum kw. load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange, minus temporary deliveries (not interchange) of emergency power to another system.
- Monthly energy usage should be the sum of the respondent's net generation for load and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with Total Source of Energy on the Electric Energy Account Schedule.
- If the utility has two or more power systems not physically connected, the information called for below should be furnished for each system.
- Time reported in column (e) should be in military time (e.g., 6:00 pm would be reported as 18:00).
- If the utility has class coincident peak demand report class demand at the time of the utility's peak and total monthly class energy.

SYSTEM: STOUGHTON

Type of Reading: 60 minutes integrated

Supplier: Wisconsin Public Power (WPPI)

SYSTEM: DUNKIRK DAM

Type of Reading: 15 minutes integrated

Supplier: Midcontinent Independent System Operator (MISO)

Monthly Peak Usage						Monthly
Month (a)	kW (b)	Day of Week (c)	Date (d)	Time Ending (HH:MM) (e)	Energy Usage (kWh) (f)	
January	23,731	Tuesday	01/12/2016	19:00	12,616,291	1
February	21,504	Tuesday	02/09/2016	19:00	11,327,318	2
March	20,668	Tuesday	03/01/2016	19:00	10,809,478	3
April	18,242	Monday	04/04/2016	11:00	10,133,681	4
May	20,689	Saturday	05/28/2016	15:00	10,568,931	5
June	29,731	Wednesday	06/15/2016	19:00	12,841,397	6
July	32,378	Thursday	07/21/2016	17:00	14,358,016	7
August	32,246	Wednesday	08/03/2016	18:00	14,795,716	8
September	29,604	Tuesday	09/06/2016	18:00	11,943,908	9
October	20,386	Monday	10/17/2016	20:00	10,889,183	10
November	20,685	Wednesday	11/30/2016	18:00	10,805,303	11
December	24,559	Monday	12/19/2016	18:00	12,711,905	12
Total	294,423				143,801,127	13

Monthly Peak Usage						Monthly
Month (a)	kW (b)	Day of Week (c)	Date (d)	Time Ending (HH:MM) (e)	Energy Usage (kWh) (f)	
January	243	Sunday	01/03/2016	08:00	144,425	14
February	232	Saturday	02/20/2016	19:30	103,001	15
March	255	Thursday	03/31/2016	11:45	113,264	16
April	232	Friday	04/01/2016	00:00	88,357	17

Monthly Peak Demand and Energy Usage

- Report hereunder the information called for pertaining to simultaneous peak demand established monthly and monthly energy usage col. (f) kilowatt-hours.
- Monthly peak col. (b) (reported as actual number) should be respondent's maximum kw. load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange, minus temporary deliveries (not interchange) of emergency power to another system.
- Monthly energy usage should be the sum of the respondent's net generation for load and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with Total Source of Energy on the Electric Energy Account Schedule.
- If the utility has two or more power systems not physically connected, the information called for below should be furnished for each system.
- Time reported in column (e) should be in military time (e.g., 6:00 pm would be reported as 18:00).
- If the utility has class coincident peak demand report class demand at the time of the utility's peak and total monthly class energy.

May	213	Thursday	05/05/2016	02:45	90,095	18
June	143	Sunday	06/26/2016	06:45	52,008	19
July	223	Saturday	07/23/2016	23:00	32,126	20
August	132	Monday	08/01/2016	06:30	70,663	21
September	139	Sunday	09/18/2016	08:45	46,425	22
October	228	Friday	10/21/2016	17:45	106,962	23
November	233	Wednesday	11/30/2016	06:15	123,465	24
December	246	Friday	12/02/2016	09:45	162,445	25
Total	2,519				1,133,236	26

Monthly Peak Demand and Energy Usage

- Report hereunder the information called for pertaining to simultaneous peak demand established monthly and monthly energy usage col. (f) kilowatt-hours.
- Monthly peak col. (b) (reported as actual number) should be respondent's maximum kw. load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange, minus temporary deliveries (not interchange) of emergency power to another system.
- Monthly energy usage should be the sum of the respondent's net generation for load and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with Total Source of Energy on the Electric Energy Account Schedule.
- If the utility has two or more power systems not physically connected, the information called for below should be furnished for each system.
- Time reported in column (e) should be in military time (e.g., 6:00 pm would be reported as 18:00).
- If the utility has class coincident peak demand report class demand at the time of the utility's peak and total monthly class energy.

Monthly Peak Usage By Rate Schedule

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Residential Sales												
RG-1 kW at Peak	6076	5215	4726	4278	4628	5854	7180	7246	5114	4441	4665	6443
RG-1 Monthly Usage kWh												
RG-2 kW at Peak	9	8	8	7	8	10	12	12	9	8	8	12
RG-2 Monthly Usage kWh												
Commercial & Industrial												
CP-1 kW at Peak	3053	3099	3289	3525	3667	4030	3852	3889	3989	3586	3347	3081
CP-1 Monthly Usage kWh	1171	1067	1044	987	1019	1121	1190	1201	1084	1019	1018	1105
CP-1 TOD kW at Peak	502	484	549	540	597	623	634	662	663	617	645	587
CP-1 TOD Monthly Usage kWh	180	171	178	175	196	239	241	259	231	215	194	203
CP-2 kW at Peak	2030	1968	1898	2048	2073	2204	2221	2200	2101	2113	2212	2358
CP-2 Monthly Usage kWh	821	750	721	792	816	852	928	949	802	809	878	998
CP-3 kW at Peak	6654	6438	6550	6788	7058	7422	7491	7542	7672	6988	6766	6649
CP-3 Monthly Usage kWh	2512	2426	2493	2309	2455	2864	2738	2980	2858	2740	2510	2372
GS-1 kW at Peak												
GS-1 Monthly Usage kWh	1567	1405	1326	1245	1334	1477	1648	1688	1384	1339	1251	1518
GS-2 kW at Peak												
GS-2 Monthly Usage kWh	24	22	23	22	24	2	2	6	2	1	1	1
Lighting Service												
MS-1 kW at Peak												
MS-1 Monthly Usage kWh	80	70	62	51	46	41	45	50	56	66	72	82

Monthly Peak Demand and Energy Usage

- Report hereunder the information called for pertaining to simultaneous peak demand established monthly and monthly energy usage col. (f) kilowatt-hours.
- Monthly peak col. (b) (reported as actual number) should be respondent's maximum kw. load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange, minus temporary deliveries (not interchange) of emergency power to another system.
- Monthly energy usage should be the sum of the respondent's net generation for load and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with Total Source of Energy on the Electric Energy Account Schedule.
- If the utility has two or more power systems not physically connected, the information called for below should be furnished for each system.
- Time reported in column (e) should be in military time (e.g., 6:00 pm would be reported as 18:00).
- If the utility has class coincident peak demand report class demand at the time of the utility's peak and total monthly class energy.

Monthly Peak Usage By Rate Schedule

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Residential Sales												
RG-1 kW at Peak												22
RG-1 Monthly Usage kWh												23
RG-2 kW at Peak												24
RG-2 Monthly Usage kWh												25
Commercial & Industrial												26
CP-1 kW at Peak												27
CP-1 Monthly Usage kWh												28
CP-1 TOD kW at Peak												29
CP-1 TOD Monthly Usage kWh												30
CP-2 kW at Peak												31
CP-2 Monthly Usage kWh												32
CP-3 kW at Peak												33
CP-3 Monthly Usage kWh												34
GS-1 kW at Peak												35
GS-1 Monthly Usage kWh												36
GS-2 kW at Peak												37
GS-2 Monthly Usage kWh												38
Lighting Service												39
MS-1 kW at Peak												40
MS-1 Monthly Usage kWh												41
MS-2 kW at Peak												42

Electric Energy Account

Description (a)	kWh (b)
SOURCE OF ENERGY	
Generation (excluding Station Use):	
Steam	
Nuclear Steam	
Hydraulic	
Combustion Turbine	
Internal Combustion	
Non-Conventional (wind, photovoltaic, etc.)	
Total Generation	0
Purchases	143,948
Interchanges:	
In (gross)	
Out (gross)	
Net	0
Transmission for/by others (wheeling):	
Received	
Delivered	
Net	0
Total Source of Energy	143,948
DISPOSITION OF ENERGY	
Sales to Ultimate Consumers (including interdepartmental sales)	140,891
Sales For Resale	
Energy Used by the Company (excluding station use):	
Electric Utility	
Common (office, shops, garages, etc. serving 2 or more util. depts.)	1,906
Total Used by Company	1,906
Total Sold and Used	142,797
Energy Losses:	
Transmission Losses (if applicable)	
Distribution Losses	1,151
Total Energy Losses	1,151
Loss Percentage (% Total Energy Losses of Total Source of Energy)	0.7996%
Total Disposition of Energy	143,948

Electric Generating Plant Statistics (Large Plants)

- Report data for plant in service only.
- Large plants are steam plants with installed capacity (name plate rating) of 25,000 Kw or more. Report in this page gas-turbine and internal combustion plants of 10,000 Kw or more, and nuclear plants.
- Indicate by a footnote any plant leased or operated as a joint facility.
- If net peak demand for 60 minutes is not available, give data which is available, specifying period.
- If any employees attend more than one plant, report on line 11 the approximate average number of employees assignable to each plant.
- If gas is used and purchased on a term basis report the BTU content of the gas and the quantity of fuel burned converted to MCT.
- Quantities of fuel burned and average cost per unit of fuel burned must be consistent with charges to expense accounts 501 and 547 as shown on line 20
- If more than one fuel is burned in a plant furnish only the composite heat rate for all fuels burned.

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Purchased Power Statistics

- Use separate entries for each point of delivery, where a different wholesale supplier contract applies.
- For purchased power suppliers with multiple delivery points, you may combine into a single delivery point.

Source: 1

Name of Vender	Type of Power Purchased	Point of Delivery
Wisconsin Public Power (WPPI)	Firm	East

Voltage at Which Delivered:	69.0
Voltage at Point of Metering:	69.0
Total of 12 Monthly Maximum Demands -- kW:	294,423
Average Load Factor:	0.0670
Total Cost of Purchased Power:	11,549,233
Average cost per kWh:	80.2320
On-Peak Hours (if applicable):	_____

Monthly Purchases --- kWh		
	on-Peak	off-Peak
January	4,766	7,851
February	4,738	6,589
March	4,640	6,169
April	4,127	6,007
May	4,293	6,415
June	5,536	7,305
July	5,929	8,429
August	6,818	7,978
September	4,988	6,956
October	4,379	6,510
November	4,408	6,397
December	4,963	7,757
Total kWh	59,585	84,363

Customer Owned Distributed Energy Resources

- Report each customer owned distributed energy resource with an installed capacity of 20 kilowatts or greater.
- Report as monthly purchases, all energy delivered to the company.
- If energy purchases are not made according on-peak and off-peak periods, provide monthly purchase amounts according to the on-peak and off-peak hours of the utility's primary purchased power supplier, and explain in footnote.
- If the utility is unable to separate energy purchases into on-peak and off-peak periods, explain in footnote.
- Report voltage at the point of metering in volts.

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Hydroelectric Generating Plant Statistics (Large Plants)

- Large plants are hydro plans of 10,000 kW or more of installed capacity (nameplate ratings). Small plants are entered in Schedule E-17.
- If any plant is leased, operated under a license from the Federal Energy Regulatory Commission (FERC), or operated as a joint facility, indicate such facts in a footnote. If a FERC licensed project, give project number.
- If net peak demand for 60 minutes is not available, give that which is available, specifying period.
- If a group of employees attends more than one generating plant, report on line 11 the approximate average number of employees assignable to each plant.

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY - - -

Electric Generating Plant Statistics (Small Plants)

- Small generating plants are steam plants of less than 25,000 kW, internal combustion and gas-turbine plants, conventional hydro plants, solar and pumped storage plants of less than 10,000 kW installed capacity (name plate rating).
- Designate any plant leased from others, operated under a license from the Federal Energy Regulatory Commission, or operated as a joint facility, and give a concise statement of the facts in a footnote. If licensed project, give project number in footnote.

Plant Name (a)	Unit ID (b)	Kind of Plant (c)	Year Originally Constructed (d)	Installed Capacity Name Plate Rating (in kW) (e)	Net Peak Demand kW (60 min.) (f)	Net Generation Excluding Plant Use kWh (g)	Cost of Plant (Including Asset Retirement Costs) (h)	Plant Cost (Including Asset Retirement Cost) per kW (i)	Operating Excluding Fuel (j)	Production Expenses Fuel (k)	Production Expenses Maintenance (l)	Kind of Fuel (m)	Fuel Costs (In cents per Million BTU) (n)
-------------------	----------------	----------------------	------------------------------------	-----------------------------------------------------	-------------------------------------	-----------------------------------------------	---------------------------------------------------------	------------------------------------------------------------	---------------------------------	---------------------------------	----------------------------------------	---------------------	----------------------------------------------

--- THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY ---

Substation Equipment

Report separately each substation used wholly or in part for transmission, each distribution substation over 1,000 kVA capacity and each substation that serves customers with energy for resale.

Substation Name (a)	Voltage High Side kV (b)	Voltage Low Side kV (c)	Number of Main Transformers in Operation (d)	Total Capacity of Transformers in kVA (e)	Number of Spare Transformers on Hand (f)	15-Minute Maximum Demand in kW (g)	Date and Hour of Maximum Demand (h)	kWh Annual Throughput (i)
East	69.0	12.5	2	20,000	0	11,106	07/21/2016 05:00 PM	49,039,429 *
North	69.0	12.5	2	20,000	0	13,801	07/21/2016 05:00 PM	57,649,745 *
South	69.0	12.5	2	20,000	0	9,994	07/25/2016 06:00 PM	37,184,929 *

Electric Metering

- Please enter the number of meters currently in use for each customer class.
- For **Meter Types** enter the number of meters with that function, regardless of actual use.
- For **Read Method** enter the number of meters with that capability, regardless of actual read method.
- For **Tested** enter the number of meters tested in the annual report year.

Description (a)	Meter Count (b)	Meter Types				Read Method			Tested (j)
		Energy Only (c)	Energy TOU (d)	Demand (e)	Demand TOU (f)	Manual (g)	Drive-by (h)	Remote (i)	
RG-1 Residential	7,744	7,744					7,744		57
RG-2 Residential	12		12				12		1
CP-1 Small Power	49			49			45	4	10
CP-1 TOD Small Power	12				12		10	2	
CP-2 Large Power	19				19			19	
CP-3 Industrial Power	24				24			24	
GS-1 General Service	848	806		42			848		26
GS-2 General Service	2		2				2		
MS-1 Street Lighting	4	4					4		
Stock	143	111			32				
TOTAL:	8,857	8,665	14	91	87	0	8,665	49	94

Electric Customers Served

- List the number of customer accounts in each municipality for which your utility provides retail service. Do not include wholesale customers.
- Per Wisconsin state statute, a city, village, town or sanitary district may serve customers outside its corporate limits, including adjoining municipalities. For purposes of this schedule, customers located "Within Muni Boundary" refers to those located inside the jurisdiction that owns the utility.

Municipality (a)	Customers End of Year (b)	
Dunkirk (Town)	810	1
Dunn (Town)	801	2
Pleasant Springs (Town)	518	3
Rutland (Town)	228	4
Stoughton (City) **	6,245	5
Total - Dane County	8,602	6
Porter (Town)	11	7
Total - Rock County	11	8
Total - Customers Served	8,613	9
Total - Outside Muni Boundary	2,368	10
Total - Within Muni Boundary **	6,245	11

** = *Within municipal boundary*

Low Income and Energy Efficiency Programs

- Use checkboxes to identify whether you contribute public benefits funds to statewide programs (Focus on Energy and/or DOA Low-Income) or keep funds for commitment to community programs. Check the "Voluntary" box if you fund programs above the level required by public benefits statutes, such as for voluntary programs or to meet the conditions of legal settlements.
- Record your efficiency and low-income account balances as of the beginning of the calendar year.
- Record total Account 253 collections for efficiency and low-income programs during the calendar year.
 - Under "Public Benefits Collections," record total collections related to statutory public benefits requirements.
 - Under "Additional Collections," record any collections in excess of public benefits requirements.
- Identify the number of customers whose bills were adjusted in order to comply with the statutory cap on public benefits collections, which prohibits collections in excess of \$750 per month or 3.0 percent of a customer bill, whichever is lesser. Count all customers affected at least one month of the year.
 - Some utilities may not be able to easily identify affected customers. For example, billing systems may make it time-consuming or impossible to identify the customers receiving adjustments. If you cannot efficiently identify the number of customers affected, leave the entry blank and add a footnote to the page explaining your difficulty.
- Record total Account 186 expenditures for efficiency and low-income programs during the calendar year.
 - Under "Statewide Program Contributions", include all payments made to Focus on Energy for Energy Efficiency, and to DOA for Low-Income Programs.
 - Under "Utility Expenditures," include all expenditures on commitment to community programs and additional activities.
- Record the Net Balance in the efficiency and low-income accounts at the end of the calendar year.

Expenditures and Revenues

	Low Income	Energy Efficiency	Public Benefits Total	
Commitment to Community				1
State Program Participant (DOA Low Income/Focus on Energy)	X	X		2
Additional Programming				3
Revenues				4
Beginning of the Year Balance	20,638	10,412	31,050	5
Account 253 Collections	63,922	63,922	127,844	6
Public Benefits Collections	63,922	63,922	127,844	7
Additional Collections				8
Number of Customers Affected by Statutory Cap on Public Benefits Collection				9
Expenditures				10
Account 186 Expenditures	63,641	63,641	127,282	11
Statewide Program Contributions	63,641	63,641	127,282	12
Utility Expenditures				13
Net Balance	20,919	10,693	31,612	14

Electric Meter Consumer Adjustment

- A classified record shall be kept of the number and amount of refunds and charges made because of inaccurate meters, stopped or broken meters, faulty or incorrect metering installations, failure to apply appropriate multipliers or application of incorrect multipliers, misapplication of rates, fraud or theft of service and other erroneous billing.
- The report shall show the number and amount of refunds or charges under each of the categories listed above.
- A record shall also be kept of the complaint or customer requested tests made and the total number for the year included in this report.

Description (a)	Credits/Refunds		Charges		
	Total Number of Credits/Refund (b)	Total Dollars (c)	Total Number of Charges (d)	Total Dollars (e)	
Inaccurate Meter					1
Stopped/Broken Meter					2
Faulty/Incorrect Meter					3
Incorrect Meter Multiplier					4
Misapplication of Rates	1	16			5
Fraud/Theft of Service					6
Switched Meters					7
Other Erroneous Billing	1	2,825			8
TOTAL:	2	2,841	0	0	9

Number of Meter Complaint: 0

Customer Requested Tests Performed: 0



WATER, ELECTRIC, OR JOINT UTILITY ANNUAL REPORT

OF

STOUGHTON WATER UTILITY

PO BOX 383
STOUGHTON, WI 53589-0383

For the Year Ended: DECEMBER 31, 2016

TO

PUBLIC SERVICE COMMISSION OF WISCONSIN

P.O. Box 7854
Madison, WI 53707-7854
(608) 266-3766

This form is required under Wis. Stat. § 196.07. Failure to file the form by the statutory filing date can result in the imposition of a penalty under Wis. Stat. § 196.66. The penalty which can be imposed by this section of the statutes is a forfeiture of not less than \$25 nor more than \$5,000 for each violation. Each day subsequent to the filing date constitutes a separate and distinct violation. The filed form is available to the public and personally identifiable information may be used for purposes other than those related to public utility regulation.

I **Jamin T Friedl, CPA, Finance Manager** of **STOUGHTON WATER UTILITY**, certify that I am the person responsible for accounts; that I have examined the following report and, to the best of my knowledge, information and belief, it is a correct statement of the business and affairs of said utility for the period covered by the report in respect to each and every matter set forth therein.

Date Signed: **3/20/2017**

Table of Contents

Schedule Name	Page
INTRODUCTORY SECTION	
Signature Page	ii
Identification and Ownership - Contacts	iv
Identification and Ownership - Governing Authority and Audit Information	v
Identification and Ownership - Contract Operations	vi
FINANCIAL SECTION	
Income Statement	F-01
Income Statement Account Details	F-02
Income from Merchandising, Jobbing & Contract Work (Accts. 415-416)	F-03
Revenues Subject to Wisconsin Remainder Assessment	F-04
Distribution of Total Payroll	F-05
Full-Time Employees (FTE)	F-06
Balance Sheet	F-07
Net Utility Plant	F-08
Accumulated Provision for Depreciation of Utility Plant on Utility Plant Financed by Utility Operations or by the Municipality (Acct. 111.1)	F-09
Accumulated Provision for Depreciation of Utility Plant on Contributed Plant in Service (Acct. 111.2)	F-10
Net Nonutility Property (Accts. 121 & 122)	F-11
Accumulated Provision for Uncollectible Accounts-Cr. (Acct. 144)	F-12
Materials and Supplies	F-13
Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 and 251)	F-14
Capital Paid in by Municipality (Acct. 200)	F-15
Bonds (Acct. 221)	F-17
Notes Payable & Miscellaneous Long-Term Debt	F-18
Taxes Accrued (Acct. 236)	F-19
Interest Accrued (Acct. 237)	F-20
Balance Sheet Detail - Other Accounts	F-22
Return on Rate Base Computation	F-23
Regulatory Liability - Pre-2003 Historical Accumulated Depreciation on Contributed Utility Plant (253)	F-25
Important Changes During the Year	F-26
WATER SECTION	
Water Operating Revenues & Expenses	W-01
Water Operating Revenues - Sales of Water	W-02
Sales for Resale (Acct. 466)	W-03
Other Operating Revenues (Water)	W-04
Water Operation & Maintenance Expenses	W-05
Taxes (Acct. 408 - Water)	W-06
Water Property Tax Equivalent - Detail	W-07
Water Utility Plant in Service - Plant Financed by Utility or Municipality	W-08
Water Utility Plant in Service - Plant Financed by Contributions	W-09
Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality	W-10
Water Accumulated Provision for Depreciation - Plant Financed by Contributions	W-12
Age of Water Mains	W-13
Sources of Water Supply - Statistics	W-14

Table of Contents

WATER SECTION

Water Audit and Other Statistics	W-15
Sources of Water Supply - Well Information	W-16
Sources of Water Supply - Intake Information	W-17
Pumping & Power Equipment	W-18
Reservoirs, Standpipes and Elevated Tanks	W-19
Water Treatment Plant	W-20
Water Mains	W-21
Water Service Laterals	W-22
Meters	W-23
Hydrants and Distribution System Valves	W-25
List of All Station and Wholesale Meters	W-26
Water Conservation Programs	W-27
Water Customers Served	W-28

Identification and Ownership - Contacts

Utility employee in charge of correspondence concerning this report

Name: Jamin T Friedl, CPA

Title: Finance and Administrative Manger

Mailing Address: 600 S Fourth Street
Stoughton, WI 53589

Phone: (608) 877-7415

Email Address: jfriedl@stoughtonutilities.com

Accounting firm or consultant preparing this report (if applicable)

Name:

Title:

Mailing Address:

Phone:

Email Address:

Name and title of utility General Manager (or equivalent)

Name: Robert P Kardasz, P.E.

Title: Utilities Director

Mailing Address: 600 S Fourth Street
Stoughton, WI 53589

Phone: (608) 877-7423

Email Address: rkardasz@stoughtonutilities.com

President, chairman, or head of utility commission/board or committee

Name: Donna Olson

Title: Mayor

Mailing Address: 381 E Main Street
Stoughton, WI 53589

Phone: (608) 673-6677

Email Address: dolson@ci.stoughton.wi.us

Identification and Ownership - Governing Authority and Audit Information

Utility Governing Authority

Select the governing authority for this utility.

Reports to utility board/commission

Reports directly to city/village council

Audit Information

Are utility records audited by individuals or firms other than utility employees? Yes No

Date of most recent audit report: 01/22/2016

Period covered by most recent audit: 2015

Individual or firm, if other than utility employee, auditing utility records

Name: Jodi Dobson

Title: Partner

Organization Name: Baker Tilly

USPS Address: Ten Terrace Court

City State Zip Madison, WI 53718

Telephone: (608) 240-2469

Email Address: jodi.dobson@bakertilly.com

Identification and Ownership - Contract Operations

Do you have any contracts?

Are any the utility administrative or operational functions under contract or agreement with an outside provider for the year covered by this annual report and/or current year (i.e., operation of water or sewer treatment plant)? **NO**

Income Statement

Particulars (a)	This Year (b)	Last Year (c)	
UTILITY OPERATING INCOME			1
Operating Revenues (400)	2,001,123	1,784,415	2
Operating Expenses:			3
Operation and Maintenance Expense (401-402)	969,933	869,159	4
Depreciation Expense (403)	302,956	296,895	5
Amortization Expense (404-407)	0	0	6
Taxes (408)	410,126	381,814	7
Total Operating Expenses	1,683,015	1,547,868	8
Net Operating Income	318,108	236,547	9
Income from Utility Plant Leased to Others (412-413)			10
Utility Operating Income	318,108	236,547	11
OTHER INCOME			12
Income from Merchandising, Jobbing and Contract Work (415-416)	0	0	13
Income from Nonutility Operations (417)			14
Nonoperating Rental Income (418)			15
Interest and Dividend Income (419)	25,029	8,609	16
Miscellaneous Nonoperating Income (421)	756,372	500,265	17
Total Other Income	781,401	508,874	18
Total Income	1,099,509	745,421	19
MISCELLANEOUS INCOME DEDUCTIONS			20
Miscellaneous Amortization (425)	(29,948)	(29,948)	21
Other Income Deductions (426)	125,129	111,737	22
Total Miscellaneous Income Deductions	95,181	81,789	23
Income Before Interest Charges	1,004,328	663,632	24
INTEREST CHARGES			25
Interest on Long-Term Debt (427)	74,001	77,147	26
Amortization of Debt Discount and Expense (428)	47,812	12,880	27
Amortization of Premium on Debt--Cr. (429)	2,952	6,446	28
Interest on Debt to Municipality (430)	0	0	29
Other Interest Expense (431)	0	0	30
Interest Charged to Construction--Cr. (432)			31
Total Interest Charges	118,861	83,581	32
Net Income	885,467	580,051	33
EARNED SURPLUS			34
Unappropriated Earned Surplus (Beginning of Year) (216)	11,429,277	10,738,807	35
Balance Transferred from Income (433)	885,467	580,051	36
Miscellaneous Credits to Surplus (434)		110,479	37
Miscellaneous Debits to Surplus--Debit (435)			38
Appropriations of Surplus--Debit (436)		1	39
Appropriations of Income to Municipal Funds--Debit (439)	2,412	59	40
Total Unappropriated Earned Surplus End of Year (216)	12,312,332	11,429,277	41

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.

Description (a)	Earnings (216.1) (b)	Contributions (216.2) (c)	Total This Year (d)	1
UTILITY OPERATING INCOME	0	0	0	1
Operating Revenues (400)	0	0	0	2
Derived	2,001,123		2,001,123	3
Total (Acct. 400)	2,001,123	0	2,001,123	4
Operation and Maintenance Expense (401-402)	0	0	0	5
Derived	969,933		969,933	6
Total (Acct. 401-402)	969,933	0	969,933	7
Depreciation Expense (403)	0	0	0	8
Derived	302,956		302,956	9
Total (Acct. 403)	302,956	0	302,956	10
Amortization Expense (404-407)	0	0	0	11
Derived	0		0	12
Total (Acct. 404-407)	0	0	0	13
Taxes (408)	0	0	0	14
Derived	410,126		410,126	15
Total (Acct. 408)	410,126	0	410,126	16
TOTAL UTILITY OPERATING INCOME	318,108	0	318,108	17
OTHER INCOME	0	0	0	18
Income from Merchandising, Jobbing and Contract Work (415-416)	0	0	0	19
Derived	0		0	20
Total (Acct. 415-416)	0	0	0	21
Interest and Dividend Income (419)	0	0	0	22
INTEREST INCOME	25,029		25,029	23
Total (Acct. 419)	25,029	0	25,029	24
Miscellaneous Nonoperating Income (421)	0	0	0	25
Contributed Plant - Water		756,372	756,372	26
Impact Fees - Water			0	27
Total (Acct. 421)	0	756,372	756,372	28
TOTAL OTHER INCOME	25,029	756,372	781,401	29
MISCELLANEOUS INCOME DEDUCTIONS	0	0	0	30
Miscellaneous Amortization (425)	0	0	0	31
Amortization of Non Utility Property	4,280		4,280	32
Regulatory Liability (253) Amortization	(34,228)		(34,228)	33
Total (Acct. 425)	(29,948)	0	(29,948)	34
Other Income Deductions (426)	0	0	0	35
Depreciation Expense on Contributed Plant - Water		125,129	125,129	36
Total (Acct. 426)	0	125,129	125,129	37
TOTAL MISCELLANEOUS INCOME DEDUCTIONS	(29,948)	125,129	95,181	38
INTEREST CHARGES	0	0	0	39
Interest on Long-Term Debt (427)	0	0	0	40

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.

Description (a)	Earnings (216.1) (b)	Contributions (216.2) (c)	Total This Year (d)	
Derived	74,001		74,001	41
Total (Acct. 427)	74,001	0	74,001	42
Amortization of Debt Discount and Expense (428)	0	0	0	43
Amortization of Debt Discount and Expense	47,812		47,812	44
Total (Acct. 428)	47,812	0	47,812	45
Amortization of Premium on Debt--Cr. (429)	0	0	0	46
Amortization of Premium on Debt	2,952		2,952	47
Total (Acct. 429)	2,952	0	2,952	48
Interest on Debt to Municipality (430)	0	0	0	49
Derived	0		0	50
Total (Acct. 430)	0	0	0	51
Other Interest Expense (431)	0	0	0	52
Derived	0		0	53
Total (Acct. 431)	0	0	0	54
TOTAL INTEREST CHARGES	118,861	0	118,861	55
NET INCOME	254,224	631,243	885,467	56
EARNED SURPLUS	0	0	0	57
Unappropriated Earned Surplus (Beginning of Year) (216)	0	0	0	58
Derived	6,640,244	4,789,033	11,429,277	59
Total (Acct. 216)	6,640,244	4,789,033	11,429,277	60
Balance Transferred from Income (433)	0	0	0	61
Derived	254,224	631,243	885,467	62
Total (Acct. 433)	254,224	631,243	885,467	63
Appropriations of Income to Municipal Funds--Debit (439)	0	0	0	64
TAX STABILIZATION PAYMENT	2,412		2,412	65
Total (Acct. 439)	2,412	0	2,412	66
UNAPPROPRIATED EARNED SURPLUS (END OF YEAR)	6,892,056	5,420,276	12,312,332	67

Income from Merchandising, Jobbing & Contract Work (Accts. 415-416)

Particulars (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Revenues						1
Revenues (account 415)					0	2
Cost and Expenses of Merchandising, Jobbing and Contract Work (416)						3
Cost of merchandise sold					0	4
Payroll					0	5
Materials					0	6
Taxes					0	7
Total costs and expenses	0	0	0	0	0	8
Net Income (or loss)	0	0	0	0	0	9

Revenues Subject to Wisconsin Remainder Assessment

- Report data necessary to calculate revenue subject to Wisconsin remainder assessment pursuant to Wis. Stat § 196.85(2) and Wis. Admin. Code Ch. PSC 5.
- If the sewer department is not regulated by the PSC, do not report sewer department in data column (d).

Description (a)	Water Utility (b)	Electric Utility (c)	Gas Utility (d)	Sewer Utility (Regulated Only (e)	Total (f)	
Total operating revenues	2,001,123				2,001,123	1
Less: interdepartmental sales	1,918				1,918	2
Less: interdepartmental rents	0				0	3
Less: return on net investment in meters charged to regulated sewer department. (Do not report if nonregulated sewer.)					0	4
Less: uncollectibles directly expensed as reported in water acct. 904 (690 class D), sewer acct. 843, and electric acct. 904 -or- Net write-offs when Accumulated Provision for Uncollectible Accounts (acct. 144) is maintained					0	5
Revenues subject to Wisconsin Remainder Assessment	1,999,205	0	0	0	1,999,205	6

Distribution of Total Payroll

- Amounts charged to Utility Financed and to Contributed Plant accounts should be combined and reported in plant or accumulated depreciation accounts.
- Amount originally charged to clearing accounts as shown in column (b) should be shown as finally distributed in column (c).
- The amount for clearing accounts in column (c) is entered as a negative for account "Clearing Accounts" and the distributions to accounts on all other lines in column (c) will be positive with the total of column (c) being zero.
- Provide additional information in the schedule footnotes when necessary.

Accounts Charged (a)	Direct Payroll Distribution (b)	Allocation of Amounts Charged Clearing Accts. (c)	Total (d)	
Water operating expenses	387,962	4,698	392,660	1
Electric operating expenses			0	2
Gas operating expenses			0	3
Heating operating expenses			0	4
Sewer operating expenses			0	5
Merchandising and jobbing			0	6
Other nonutility expenses			0	7
Water utility plant accounts	16,047	194	16,241	8
Electric utility plant accounts			0	9
Gas utility plant accounts			0	10
Heating utility plant accounts			0	11
Sewer utility plant accounts			0	12
Accum. prov. for depreciation of water plant			0	13
Accum. prov. for depreciation of electric plant			0	14
Accum. prov. for depreciation of gas plant			0	15
Accum. prov. for depreciation of heating plant			0	16
Accum. prov. for depreciation of sewer plant			0	17
Clearing accounts	4,892	(4,892)	0	18
All other accounts			0	19
Total Payroll	408,901	0	408,901	20

Full-Time Employees (FTE)

- Use FTE numbers where FTE stands for Full-Time Employees or Full-Time Equivalency. FTE can be computed by using total hours worked/2080 hours for a fiscal year. Estimate to the nearest hundredth. If an employee works part time for more than one industry then determine FTE based on estimate of hours worked per industry.
- Example: An employee worked 35% of their time on electric jobs, 30% on water jobs, 20% on sewer jobs and 15% on municipal nonutility jobs. The FTE by industry would be .35 for electric, .30 for water and .20 for sewer.

Industry (a)	FTE (b)	
Water	6.0	1
Electric		2
Gas		3
Sewer		4

Balance Sheet

Assets and Othe Debits (a)	Balance End of Year (b)	Balance First of Year (c)	
ASSESTS AND OTHER DEBITS			1
UTILITY PLANT			2
Utility Plant (101)	22,060,141	20,301,482	3
Less: Accumulated Provision for Depreciation and Amortization of Utility Plant (111)	6,778,561	6,402,632	4
Utility Plant Acquisition Adjustments (117-118)	0	0	5
Other Utility Plant Adjustments (119)	0	0	6
Net Utility Plant	15,281,580	13,898,850	7
OTHER PROPERTY AND INVESTMENTS			8
Nonutility Property (121)	107,000	107,000	9
Less: Accumulated Provision for Depreciation and Amortization of Nonutility Property (122)	76,362	72,082	10
Investment in Municipality (123)	0	0	11
Other Investments (124)	0	0	12
Sinking Funds (125)	512,227	374,200	13
Depreciation Fund (126)	25,000	25,000	14
Other Special Funds (128)	96,587	93,082	15
Total Other Property and Investments	664,452	527,200	16
CURRENT AND ACCRUED ASSETS			17
Cash (131)	954,361	306,877	18
Special Deposits (134)	0	0	19
Working Funds (135)	0	0	20
Temporary Cash Investments (136)	0	0	21
Notes Receivable (141)	0	0	22
Customer Accounts Receivable (142)	198,827	167,110	23
Other Accounts Receivable (143)	41,262	19,662	24
Accumulated Provision for Uncollectible Accounts- -Cr. (144)	0	0	25
Receivables from Municipality (145)	67,553	2,419	26
Plant Materials and Operating Supplies (154)	34,812	29,831	27
Merchandise (155)	0	0	28
Other Materials and Supplies (156)	0	0	29
Stores Expense (163)	0	0	30
Prepayments (165)	828	551	31
Interest and Dividends Receivable (171)	3,858	665	32
Accrued Utility Revenues (173)	0	0	33
Miscellaneous Current and Accrued Assets (174)	450,927	556,430	34
Total Current and Accrued Assets	1,752,428	1,083,545	35
DEFERRED DEBITS			36
Unamortized Debt Discount and Expense (181)	0	0	37
Extraordinary Property Losses (182)	0	0	38
Preliminary Survey and Investigation Charges (183)	0	0	39
Clearing Accounts (184)	0	0	40
Temporary Facilities (185)	0	0	41
Miscellaneous Deferred Debits (186)	224,830	57,424	42
Total Deferred Debits	224,830	57,424	43
TOTAL ASSETS AND OTHER DEBITS	17,923,290	15,567,019	44

Balance Sheet

Liabilities and Othe Credits (a)	Balance End of Year (b)	Balance First of Year (c)	
LIABILITIES AND OTHER CREDITS			1
PROPRIETARY CAPITAL			2
Capital Paid in by Municipality (200)	1,219,478	1,003,675	3
Appropriated Earned Surplus (215)	0	0	4
Unappropriated Earned Surplus (216)	12,312,332	11,429,277	5
Total Proprietary Capital	13,531,810	12,432,952	6
LONG-TERM DEBT			7
Bonds (221)	3,417,424	2,297,381	8
Advances from Municipality (223)	0	0	9
Other Long-Term Debt (224)	0	0	10
Total Long-Term Debt	3,417,424	2,297,381	11
CURRENT AND ACCRUED LIABILITIES			12
Notes Payable (231)	0	0	13
Accounts Payable (232)	75,448	73,564	14
Payables to Municipality (233)	15,409	8,764	15
Customer Deposits (235)	0	1,615	16
Taxes Accrued (236)	387,855	363,249	17
Interest Accrued (237)	10,653	15,753	18
Tax Collections Payable (241)	0	0	19
Miscellaneous Current and Accrued Liabilities (242)	36,404	0	20
Total Current and Accrued Liabilities	525,769	462,945	21
DEFERRED CREDITS			22
Unamortized Premium on Debt (251)	35,638	0	23
Customer Advances for Construction (252)	0	0	24
Other Deferred Credits (253)	412,649	373,741	25
Total Deferred Credits	448,287	373,741	26
OPERATING RESERVES			27
Property Insurance Reserve (261)	0	0	28
Injuries and Damages Reserve (262)	0	0	29
Pensions and Benefits Reserve (263)	0	0	30
Miscellaneous Operating Reserves (265)	0	0	31
Total Operating Reserves	0	0	32
TOTAL LIABILITIES AND OTHER CREDITS	17,923,290	15,567,019	33

Net Utility Plant

- Report utility plant accounts and related accumulated provisions for depreciation and amortization after allocation of common plant accounts and related provisions for depreciation and amortization to utility departments as of December 31.

Particulars (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	
First of Year					1
Total Utility Plant - First of Year	20,301,482	0	0	0	2
	20,301,482	0	0	0	3
Plant Accounts					4
Utility Plant in Service - Financed by Utility Operations or by the Municipality (101.1)	14,600,959				5
Utility Plant in Service - Contributed Plant (101.2)	7,378,544				6
Utility Plant Purchased or Sold (102)					7
Utility Plant Leased to Others (104)					8
Property Held for Future Use (105)					9
Completed Construction not Classified (106)					10
Construction Work in Progress (107)	80,638				11
Total Utility Plant	22,060,141	0	0	0	12
Accumulated Provision for Depreciation and Amortization					13
Accumulated Provision for Depreciation of Utility Plant in Service - Financed by Utility Operations or by the Municipality (111.1)	4,786,327				14
Accumulated Provision for Depreciation of Utility Plant in Service - Contributed Plant (111.2)	1,992,234				15
Accumulated Provision for Depreciation of Utility Plant Leased to Others (112)					16
Accumulated Provision for Depreciation of Property Held for Future Use (113)					17
Accumulated Provision for Amortization of Utility Plant in Service (114)					18
Accumulated Provision for Amortization of Utility Plant Leased to Others (115)					19
Accumulated Provision for Amortization of Property Held for Future Use (116)					20
Total Accumulated Provision	6,778,561	0	0	0	21
Accumulated Provision for Depreciation and Amortization					22
Utility Plant Acquisition Adjustments (117)					23
Accumulated Provision for Amortization of Utility Plant Acquisition Adjustments (118)					24
Other Utility Plant Adjustments (119)					25
Total Other Utility Plant Accounts	0	0	0	0	26
Net Utility Plant	15,281,580	0	0	0	27

Accumulated Provision for Depreciation of Utility Plant on Utility Plant Financed by Utility Operations or by the Municipality (Acct. 111.1)

Depreciation Accruals (Credits) during the year (111.1):

- Report the amounts charged in the operating sections to Depreciation Expense (403).
- If sewer operations are nonregulated, do not report sewer depreciation on this schedule.
- Report the Depreciation Expense on Meters charged to sewer operations as an addition in the Water Column. If the sewer is also a regulated utility by the PSC, report an equal amount as a reduction in the Sewer column.
- Report all other accruals charged to other accounts, such as to clearing accounts.

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year (111.1)	4,515,477	0	0	0	4,515,477	1
Credits during year						2
Charged Depreciation Expense (403)	302,956				302,956	3
Depreciation Expense on Meters Charged to Sewer	20,806				20,806	4
Salvage	2,694				2,694	5
Clearing	10,801				10,801	6
Total credits	337,257	0	0	0	337,257	7
Debits during year						8
Book Cost of Plant Retired	46,732				46,732	9
Cost of Removal	19,675				19,675	10
Total debits	66,407	0	0	0	66,407	11
Balance end of year (111.1)	4,786,327	0	0	0	4,786,327	12

Accumulated Provision for Depreciation of Utility Plant on Contributed Plant in Service (Acct. 111.2)

Depreciation Accruals (Credits) during the year (111.2):

- Report the amounts charged in the operating sections to Other Income Deductions (426).
- If sewer operations are nonregulated, do not report sewer depreciation on this schedule.
- Report the Depreciation Expense on Meters charged to sewer operations as an addition in the Water Column. If the sewer is also a regulated utility by the PSC, report an equal amount as a reduction in the Sewer column.
- Report all other accruals charged to other accounts, such as to clearing accounts.

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year (111.2)	1,887,155	0	0	0	1,887,155	1
Credits during year						2
Charged Other Income Deductions (426)	125,129				125,129	3
Depreciation Expense on Meters Charged to Sewer					0	4
Salvage	0				0	5
Total credits	125,129	0	0	0	125,129	6
Debits during year						7
Book Cost of Plant Retired	20,050				20,050	8
Cost of Removal	0				0	9
Total debits	20,050	0	0	0	20,050	10
Balance end of year (111.2)	1,992,234	0	0	0	1,992,234	11

Net Nonutility Property (Accts. 121 & 122)

- Report separately each item of property with a book cost of \$5,000 or more included in account 121.
- Other items may be grouped by classes of property.
- Describe in detail any investment in sewer department carried in this account.

Description (a)	Balance First of Year (b)	Additions During Year (c)	Deductions During Year (d)	Balance End of Year (e)	
Nonregulated sewer plant	0			0	1
Park shelter at well house	107,000			107,000	2
Total Nonutility Property (121)	107,000	0	0	107,000	3
Less accum. prov. depr. & amort. (122)	72,082	4,280		76,362	4
Net Nonutility Property	34,918	(4,280)	0	30,638	5

Accumulated Provision for Uncollectible Accounts-Cr. (Acct. 144)

	Description (a)	Amount (b)	
	Balance first of year	0	1
	Additions		2
	Provision for uncollectibles during year	0	3
	Collection of accounts previously written off: Utility Customers	0	4
	Collection of accounts previously written off: Others	0	5
	Total Additions	0	6
	Accounts Written Off		7
	Accounts written off during the year: Utility Customers	0	8
	Accounts written off during the year: Others	0	9
	Total Accounts Written Off	0	10
	Balance End of Year	0	11

Materials and Supplies

Account (a)	Generation (b)	Transmission (d)	Distribution (d)	Other (e)	Total End of Year (f)	Amount Prior Year (g)	
Electric Utility							1
Fuel (151)					0	0	2
Fuel stock expenses (152)					0	0	3
Plant mat. & oper. sup. (154)					0	0	4
Total Electric Utility	0	0	0	0	0	0	5

Account	Total End of Year	Amount Prior Year	
Electric utility total	0	0	1
Water utility (154)	34,812	29,831	2
Sewer utility (154)			3
Heating utility (154)			4
Gas utility (154)			5
Merchandise (155)			6
Other materials & supplies (156)			7
Stores expense (163)			8
Total Material and Supplies	34,812	29,831	9

Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 and 251)

Report net discount and expense or premium separately for each security issue.

Debt Issue to Which Related (a)	Written Off During Year		Balance End of Year (d)	
	Amount (b)	Account Charged or Credited (c)		
Unamortized debt discount & expense (181)				1
None				2
Total	0		0	3
Unamortized premium on debt (251)				4
2016 MRB	2,952	429	35,638	5
None				6
Total	2,952		35,638	7

Capital Paid in by Municipality (Acct. 200)

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D, sewer and privates) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

	Description (a)	Amount (b)	
Balance first of year		1,003,675	1
Municipal Contribution - Kettle Park West		215,803	2
Balance end of year		1,219,478	3

Bonds (Acct. 221)

- Report information required for each separate issue of bonds.
- If there is more than one interest rate for an aggregate obligation issue, average the interest rates and report one rate.
- Proceeds advanced by the municipality from sale of general obligation bonds, if repayable by utility, should be included in account 223.
- Enter interest rates in decimal form. For example, enter 6.75% as 0.0675

Description of Issue (a)	Date of Issue (b)	Final Maturity Date (c)	Interest Rate (d)	Principal Amount End of Year (e)	
2010 Mortgage Revenue Bonds	01/27/2010	05/01/2029	2.63%	423,424	1
2015 General Obligation Bonds	07/09/2015	04/01/2025	2.00%	474,000	2
2016 Mortgage Revenue Bonds	05/26/2016	05/01/2026	1.42%	2,520,000	3
Total				3,417,424	4

Notes Payable & Miscellaneous Long-Term Debt

- Report each class of debt included in Accounts 223, 224 and 231.
- Proceeds of general obligation issues, if subject to repayment by the utility, should be included in Account 223.
- If there is more than one interest rate for an aggregate obligation issue, average the interest rates and report one rate.
- Enter interest rates in decimal form. For example, enter 6.75% as 0.0675

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Taxes Accrued (Acct. 236)

Description (a)	Amount (b)	
Balance first of year	363,249	1
Charged water department expense	410,126	2
Charged electric department expense		3
Charged gas department expense		4
Charged sewer department expense	7,290	5
Total accruals and other credits	417,416	6
County, state and local taxes	363,249	7
Social Security taxes	27,673	8
PSC Remainder Assessment	1,888	9
Gross Receipts Tax		10
Total payments and other debits	392,810	11
Balance end of year	387,855	12

Interest Accrued (Acct. 237)

- Report below interest accrued on each utility obligation.
- Report customer deposits under account 235.

Description of Issue (a)	Interest Accrued Balance First of Year (b)	Interest Accrued During Year (c)	Interest Paid During Year (d)	Interest Accrued Balance End of Year (e)	
Bonds (221)	0	0	0	0	1
2006 MORTGAGE REVENUE BONDS	9,875	28,574	38,449	0	2
2010 REVENUE BONDS - EIF	2,003	11,537	11,657	1,883	3
2015 General Obligation Bonds	3,875	11,143	12,596	2,422	4
2016 Mortgage Revenue Bonds		22,747	16,399	6,348	5
Subtotal Bonds (221)	15,753	74,001	79,101	10,653	6
Advances from Municipality (223)	0	0	0	0	7
None				0	8
Subtotal Advances from Municipality (223)	0	0	0	0	9
Other Long-Term Debt (224)	0	0	0	0	10
None				0	11
Subtotal Other Long-Term Debt (224)	0	0	0	0	12
Notes Payable (231)	0	0	0	0	13
None				0	14
Subtotal Notes Payable (231)	0	0	0	0	15
Customer Deposits (235)	0	0	0	0	16
None				0	17
Subtotal Customer Deposits (235)	0	0	0	0	18
Total	15,753	74,001	79,101	10,653	19

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Description (a)	Balance End of Year (b)	
Sinking Funds (125)	0	1
Redemption Fund	267,550	2
Reserve Fund	244,677	3
Total (Acct. 125)	512,227	4
Depreciation Fund (126)	0	5
Depreciation Fund	25,000	6
Total (Acct. 126)	25,000	7
Other Special Funds (128)	0	8
Sick Leave Reserve	96,587	9
Total (Acct. 128)	96,587	10
Cash and Working Funds (131)	0	11
Cash	954,361	12
Total (Acct. 131)	954,361	13
Customer Accounts Receivable (142)	0	14
Water	198,827	15
Total (Acct. 142)	198,827	16
Other Accounts Receivable (143)	0	17
Sewer (Non-regulated)		18
Merchandising, jobbing and contract work		19
Miscellaneous	41,262	20
Total (Acct. 143)	41,262	21
Receivables from Municipality (145)	0	22
Receivables from Municipality	67,553	23
Total (Acct. 145)	67,553	24
Prepayments (165)	0	25
Prepaid Insurance	828	26
Total (Acct. 165)	828	27
Interest and Dividends Receivable (171)	0	28
Interest Receivable	3,858	29
Total (Acct. 171)	3,858	30
Miscellaneous Current and Accrued Assets (174)	0	31
Special Assessments - Hults Road	450,927	32

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Total (Acct. 174)	450,927	33
Miscellaneous Deferred Debits (186)	0	34
Deferred Outflows of Resources - Pension	206,806	35
Regulatory Asset - Pension	18,024	36
Total (Acct. 186)	224,830	37
Accounts Payable (232)	0	38
Accounts Payable	75,448	39
Total (Acct. 232)	75,448	40
Payables to Municipality (233)	0	41
Payable to Municipality	15,409	42
Total (Acct. 233)	15,409	43
Miscellaneous Current and Accrued Liabilities (242)	0	44
Net Pension Liability	36,404	45
Total (Acct. 242)	36,404	46
Other Deferred Credits (253)	0	47
Regulatory Liability	239,600	48
Compensated Absences	95,102	49
Deferred Inflows - Pension	77,947	50
Total (Acct. 253)	412,649	51

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Balance Sheet Detail - Other Accounts (Page F-22)

Explain amounts in Accounts 143, 145 and/or 233 in excess of \$10,000. Provide a short list or detailed description, but do not use terms such as other revenues, general, miscellaneous, or repeat the account title.

Account 143 - Amount is for engineering and other utility incurred costs relating to Kettle Park West Development.

Account 145 - Amount consists of special assessment principal and interest owed to the utility related to the Hults Road project.

Account 233 - Consists of bond issuance costs paid by the city in 2015 related to the 2015 GO borrowing, interest payments made on the 2015 GO borrowing by the city and water tower rental fees.

Return on Rate Base Computation

- The data used in calculating rate base are averages.
- Calculate those averages by summing the first-of-year and the end-of-year figures for each account and then dividing the sum by two.
- For municipal utilities, do not include contributed plant in service, property held for future use, or construction work in progress with utility plant in service. These are not rate base components.
- For private utilities, do not include property held for future use, or construction work in progress with utility plant in service. These are not rate base components.

Average Rate Base (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Add Average						1
Utility Plant in Service (101.1)	14,076,870				14,076,870	2
Materials and Supplies	32,321				32,321	3
Less Average						4
Reserve for Depreciation (111.1)	4,650,902				4,650,902	5
Customer Advances for Construction	0				0	6
Regulatory Liability	256,714				256,714	7
Average Net Rate Base	9,201,575	0	0	0	9,201,575	8
Net Operating Income	318,108				318,108	9
Net Operating Income as a percent of Average Net Rate Base	3.46%	N/A	N/A	N/A	3.46%	10

Regulatory Liability - Pre-2003 Historical Accumulated Depreciation on Contributed Utility Plant (253)

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year	273,828	0	0	0	273,828	1
Credits During Year					0	2
None					0	3
Charges (Deductions)					0	4
Miscellaneous Amortization (425)	34,228				34,228	5
Balance End of Year	239,600	0	0	0	239,600	6

Important Changes During the Year

Report changes of any of the following types:

1. Acquisitions

2. Leaseholder changes

3. Extensions of service

4. Estimated changes in revenues due to rate changes

A 13% increase in water rates was effective May 1, 2016.

5. Obligations incurred or assumed, excluding commercial paper

The water utility issued \$2,520,000 in mortgage revenue bonds during 2016.

6. Formal proceedings with the Public Service Commission

7. Any additional matters

Phase 1 of the Kettle Park West Development was completed in 2016. This project was paid for with developer and TIF funds.

Water Operating Revenues & Expenses

Description (a)	This Year (b)	Last Year (c)	
Operating Revenues - Sales of Water			1
Sales of Water (460-467)	1,960,677	1,765,042	2
Total Sales of Water	1,960,677	1,765,042	3
Other Operating Revenues			4
Forfeited Discounts (470)	6,309	4,610	5
Rents from Water Property (472)	0	0	6
Interdepartmental Rents (473)	0	0	7
Other Water Revenues (474)	34,137	14,763	8
Total Other Operating Revenues	40,446	19,373	9
Total Operating Revenues	2,001,123	1,784,415	10
Operation and Maintenance Expenses			11
Source of Supply Expense (600-617)	4,675	8,640	12
Pumping Expenses (620-633)	201,633	167,439	13
Water Treatment Expenses (640-652)	68,578	58,054	14
Transmission and Distribution Expenses (660-678)	262,642	246,963	15
Customer Accounts Expenses (901-906)	99,998	89,396	16
Sales Expenses (910)	0	0	17
Administrative and General Expenses (920-932)	332,407	298,667	18
Total Operation and Maintenance Expenses	969,933	869,159	19
Other Operating Expenses			20
Depreciation Expense (403)	302,956	296,895	21
Amortization Expense (404-407)			22
Taxes (408)	410,126	381,814	23
Total Other Operating Expenses	713,082	678,709	24
Total Operating Expenses	1,683,015	1,547,868	25
NET OPERATING INCOME	318,108	236,547	26

Water Operating Revenues - Sales of Water

- Where customer meters record cubic feet, multiply by 7.48 to obtain number of gallons.
- Report estimated gallons for unmetered sales.
- Sales to multiple dwelling buildings through a single meter serving 3 or more family units should be classified multifamily residential.
- Account 460, Unmetered Sales to General Customers - Gallons of Water Sold should not include in any way quantity of water, i.e. metered or measured by tank or pool volume. The quantity should be estimated based on size of pipe, flow, foot of frontage, etc. Bulk water sales should be Account 460 if the quantity is estimated and should be Account 461 if metered or measured by volume. Water related to construction should be a measured sale of water (Account 461).
- Report average number of individually-metered accounts (meters). The amount reported should be the average meter count. E.g. if a hospital has 5 meters, a total of 5 meters should be reported on this schedule in column b (Average No. of Customers).

Description (a)	Average No. Customer (b)	Thousand of Gallons of Water Sold (c)	Amount (d)	
Unmetered Sales to General Customers (460)				1
Residential (460.1)				2
Commercial (460.2)	13	581	1,955	3
Industrial (460.3)				4
Public Authority (460.4)	2	2,015	4,897	5
Multifamily Residential (460.5)				6
Irrigation (460.6)				7
Total Unmetered Sales to General Customers (460)	15	2,596	6,852	8
Metered Sales to General Customers (461)				9
Residential (461.1)	4,433	206,696	876,827	10
Commercial (461.2)	361	53,304	156,718	11
Industrial (461.3)	25	179,746	296,674	12
Public Authority (461.4)	43	5,304	18,747	13
Multifamily Residential (461.5)	64	25,465	65,660	14
Irrigation (461.6)				15
Total Metered Sales to General Customers (461)	4,926	470,515	1,414,626	16
Private Fire Protection Service (462)	66		38,842	17
Public Fire Protection Service (463)	4,969		498,439	18
Other Water Sales (465)				19
Sales for Resale (466)	0	0	0	20
Interdepartmental Sales (467)	6	533	1,918	21
Total Sales of Water	9,982	473,644	1,960,677	22

Sales for Resale (Acct. 466)

Use a separate line for each delivery point.

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Other Operating Revenues (Water)

- Report revenues relating to each account and fully describe each item using other than the account title.
- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D and privates) and all other lesser amounts grouped as Miscellaneous.
- For a combined utility which also provides sewer service that is based upon water readings, report the return on net investment in meters charged to sewer department in Other Water Revenues (474).

Description (a)	Amount (b)	
Public Fire Protection Service (463)		1
Amount billed (usually per rate schedule F-1 or Fd-1)	498,439	2
Wholesale fire protection billed		3
Amount billed for fighting fires outside utility's service areas (usually per rate schedule F-2 or BW-1)		4
Total Public Fire Protection Service (463)	498,439	5
Forfeited Discounts (470)		6
Customer late payment charges	6,309	7
Total Forfeited Discounts (470)	6,309	8
Rents from Water Property (472)		9
Rent of tower for cellular antennas		10
Total Rents from Water Property (472)	0	11
Interdepartmental Rents (473)		12
None		13
Total Interdepartmental Rents (473)	0	14
Other Water Revenues (474)		15
Return on net investment in meters charged to sewer department	14,951	16
Other	791	17
Water Tower Rental	18,395	18
Total Other Water Revenues (474)	34,137	19

Other Operating Revenues (Water)

- Report revenues relating to each account and fully describe each item using other than the account title.
- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D and privates) and all other lesser amounts grouped as Miscellaneous.
- For a combined utility which also provides sewer service that is based upon water readings, report the return on net investment in meters charged to sewer department in Other Water Revenues (474).

Other Operating Revenues (Water) (Page W-04)

Explain all amounts in Account 474 in excess of \$10,000.

This consists of revenue for the return on net investment of meters charged to the sewer department and water tower rental revenue based on a ten year agreement with DaneCom Radio System Administration.

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
SOURCE OF SUPPLY EXPENSES					1
Operation Supervision and Engineering (600)			0	0	2
Operation Labor and Expenses (601)			0	0	3
Purchased Water (602)			0	0	4
Miscellaneous Expenses (603)			0	0	5
Rents (604)			0	0	6
Maintenance Supervision and Engineering (610)			0	0	7
Maintenance of Structures and Improvements (611)			0	0	8
Maintenance of Collecting and Impounding Reservoirs (612)			0	0	9
Maintenance of Lake, River and Other Intakes (613)			0	0	10
Maintenance of Wells and Springs (614)		4,675	4,675	8,640	11
Maintenance of Supply Mains (616)			0	0	12
Maintenance of Miscellaneous Water Source Plant (617)			0	0	13
Total Source of Supply Expenses	0	4,675	4,675	8,640	14
PUMPING EXPENSES					15
Operation Supervision and Engineering (620)			0	0	16
Fuel for Power Production (621)			0	0	17
Power Production Labor and Expenses (622)			0	0	18
Fuel or Power Purchased for Pumping (623)		128,913	128,913	130,964	19
Pumping Labor and Expenses (624)	1,282	14,713	15,995	818 *	20
Expenses Transferred--Credit (625)			0	0	21
Miscellaneous Expenses (626)	40	2,435	2,475	2,076	22
Rents (627)			0	0	23
Maintenance Supervision and Engineering (630)			0	0	24
Maintenance of Structures and Improvements (631)	13,513	6,013	19,526	26,003	25
Maintenance of Power Production Equipment (632)			0	0	26
Maintenance of Pumping Equipment (633)	6,578	28,146	34,724	7,578 *	27
Total Pumping Expenses	21,413	180,220	201,633	167,439	28
WATER TREATMENT EXPENSES					29
Operation Supervision and Engineering (640)			0	0	30
Chemicals (641)		14,569	14,569	17,962	31
Operation Labor and Expenses (642)	40,409	4,433	44,842	36,615	32
Miscellaneous Expenses (643)			0	0	33
Rents (644)			0	0	34
Maintenance Supervision and Engineering (650)			0	0	35
Maintenance of Structures and Improvements (651)	900		900	750	36
Maintenance of Water Treatment Equipment (652)		8,267	8,267	2,727	37
Total Water Treatment Expenses	41,309	27,269	68,578	58,054	38
TRANSMISSION AND DISTRIBUTION EXPENSES					39
Operation Supervision and Engineering (660)			0	0	40
Storage Facilities Expenses (661)			0	0	41

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
Transmission and Distribution Lines Expenses (662)	14,127	189	14,316	6,590	42
Meter Expenses (663)	19,626	5,552	25,178	21,709	43
Customer Installations Expenses (664)			0	0	44
Miscellaneous Expenses (665)	26,805	14,003	40,808	65,299 *	45
Rents (666)			0	0	46
Maintenance Supervision and Engineering (670)			0	0	47
Maintenance of Structures and Improvements (671)			0	0	48
Maintenance of Distribution Reservoirs and Standpipes (672)	1,262	51,807	53,069	49,895	49
Maintenance of Transmission and Distribution Mains (673)	29,221	22,319	51,540	45,609	50
Maintenance of Services (675)	31,652	19,992	51,644	32,824 *	51
Maintenance of Meters (676)		510	510	676	52
Maintenance of Hydrants (677)	3,360	12,831	16,191	22,324	53
Maintenance of Miscellaneous Plant (678)	3,292	6,094	9,386	2,037	54
Total Transmission and Distribution Expenses	129,345	133,297	262,642	246,963	55
CUSTOMER ACCOUNTS EXPENSES					56
Supervision (901)			0	0	57
Meter Reading Expenses (902)	7,522		7,522	4,023	58
Customer Records and Collection Expenses (903)	44,070	48,406	92,476	85,373	59
Uncollectible Accounts (904)			0	0	60
Miscellaneous Customer Accounts Expenses (905)			0	0	61
Customer Service and Informational Expenses (906)			0	0	62
Total Customer Accounts Expenses	51,592	48,406	99,998	89,396	63
SALES EXPENSES					64
Sales Expenses (910)			0	0	65
Total Sales Expenses	0	0	0	0	66
ADMINISTRATIVE AND GENERAL EXPENSES					67
Administrative and General Salaries (920)	143,024	14,240	157,264	156,259	68
Office Supplies and Expenses (921)		14,581	14,581	12,379	69
Administrative Expenses Transferred--Credit (922)			0	0	70
Outside Services Employed (923)		28,928	28,928	43,771 *	71
Property Insurance (924)		11,054	11,054	9,728	72
Injuries and Damages (925)	656	11,965	12,621	9,968	73
Employee Pensions and Benefits (926)		92,302	92,302	51,446 *	74
Regulatory Commission Expenses (928)		4,991	4,991	2,192	75
Duplicate Charges--Credit (929)			0	0	76
Miscellaneous General Expenses (930)	231	240	471	0	77
Rents (931)		4,247	4,247	4,129	78
Maintenance of General Plant (932)	392	5,556	5,948	8,795	79
Total Administrative and General Expenses	144,303	188,104	332,407	298,667	80
TOTAL OPERATION AND MAINTENANCE EXPENSES	387,962	581,971	969,933	869,159	81

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 25 percent and \$5,000 (class C), 30 percent and \$2,000 (class D) shall be fully explained in the schedule footnotes.
- Class C and class D report all expenses in Other Expense (column c)

Water Operation & Maintenance Expenses (Page W-05)

Explain all This Year amounts that are more than 15% and \$10,000 higher or lower than the Last Year amount.

Account 624 - The increase is mainly due to \$12,400 incurred as the result of a VFD failure at well #4.

Account 633 - The increase is mainly due to \$21,000 in well #5 rehab costs.

Account 665 - The decrease is mainly due to a \$8,900 decrease in cross connection inspection costs in 2016 compared to 2015.

Account 675 - There were considerably higher maintenance costs due to frozen service laterals and other identified leaks in 2016 compared to 2015.

Account 923 - The utility incurred \$13,300 in outside services during 2015 related to the test year 2016 water rate study.

Account 926 - This was the first year the City of Stoughton was not self-insured and the increase here reflects the true cost of health insurance premiums for the utilities.

Taxes (Acct. 408 - Water)

When allocation of taxes is made between departments, explain method used.

Description of Tax (a)	This Year (b)	Last Year (c)	
Property Tax Equivalent	387,855	363,249	1
Less: Local and School Tax Equivalent on Meters Charged to Sewer Department	7,290	6,739	2
Net Property Tax Equivalent	380,565	356,510	3
Social Security	27,673	23,751	4
PSC Remainder Assessment	1,888	1,553	5
Total Tax Expense	410,126	381,814	6

Water Property Tax Equivalent - Detail

- No property tax equivalent shall be determined for sewer utilities or town sanitary district water utilities.
- Tax rates are those issued in November (usually) of the year being reported and are available from the municipal treasurer. Report the tax rates in mills to six (6) decimal places.
- The assessment ratio is available from the municipal treasurer. Report the ratio as a decimal to six (6) places.
- The utility plant balance first of year should include the gross book values of plant in service (total of utility financed and contributed plant), property held for future use and construction work in progress.
- An "other tax rate" is included in the "Net Local and School Tax Rate Calculation" to the extent that it is local. An example is a local library tax. Fully explain the rate in the Property Tax Equivalent schedule footnotes.
- **Property Tax Equivalent - Total**
If the municipality has authorized a lower tax equivalent amount, the authorization description and date of the authorization must be reported in the schedule footnotes. If the municipality has NOT authorized a lower amount, leave the cell blank.

COUNTY: DANE(1)

SUMMARY OF TAX RATES

1. State Tax Rate	mills	0.170371
2. County Tax Rate	mills	3.134956
3. Local Tax Rate	mills	8.448321
4. School Tax Rate	mills	11.326907
5. Vocational School Tax Rate	mills	0.969521
6. Other Tax Rate - Local	mills	0.000000
7. Other Tax Rate - Non-Local	mills	0.000000
8. Total Tax Rate	mills	24.050076
9. Less: State Credit	mills	1.839237
11. Net Tax Rate	mills	22.210839

PROPERTY TAX EQUIVALENT CALCULATION

12. Local Tax Rate	mills	8.448321
13. Combined School Tax Rate	mills	12.296428
14. Other Tax Rate - Local	mills	0.000000
15. Total Local & School Tax Rate	mills	20.744749
16. Total Tax Rate	mills	24.050076
17. Ratio of Local and School Tax to Total	dec.	0.862565
18. Total Tax Net of State Credit	mills	22.210839
19. Net Local and School Tax Rate	mills	19.158288
20. Utility Plant, Jan 1	\$	20,301,482
21. Materials & Supplies	\$	29,831
22. Subtotal	\$	20,331,313
23. Less: Plant Outside Limits	\$	0
24. Taxable Assets	\$	20,331,313
25. Assessment Ratio	dec.	0.995744
26. Assessed Value	\$	20,244,783
27. Net Local and School Tax Rate	mills	19.158288
28. Tax Equiv. Computed for Current Year	\$	387,855

PROPERTY TAX EQUIVALENT - TOTAL

PROPERTY TAX EQUIVALENT CALCULATION

1. Utility Plant, Jan 1	\$	20,301,482
2. Materials & Supplies	\$	29,831
3. Subtotal	\$	20,331,313
4. Less: Plant Outside Limits	\$	0
5. Taxable Assets	\$	20,331,313
6. Assessed Value	\$	20,244,783
7. Tax Equiv. Computed for Current Year	\$	387,855
8. Tax Equivalent per 1994 PSC Report	\$	130,803
9. Amount of Lower Tax Equiv. as Authorized by Municipality for Current Year (see notes)	\$	
10. Tax Equivalent for Current Year (see notes)	\$	387,855

Water Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$100,000 (class AB) or \$50,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
INTANGIBLE PLANT						1
Organization (301)	0				0	2
Franchises and Consents (302)	0				0	3
Miscellaneous Intangible Plant (303)	0				0	4
Total Intangible Plant	0	0	0	0	0	5
SOURCE OF SUPPLY PLANT						6
Land and Land Rights (310)	11,635				11,635	7
Structures and Improvements (311)	0				0	8
Collecting and Impounding Reservoirs (312)	0				0	9
Lake, River and Other Intakes (313)	0				0	10
Wells and Springs (314)	595,730				595,730	11
Supply Mains (316)	0				0	12
Other Water Source Plant (317)	0				0	13
Total Source of Supply Plant	607,365	0	0	0	607,365	14
PUMPING PLANT						15
Land and Land Rights (320)	0				0	16
Structures and Improvements (321)	604,891	20,919			625,810	17
Other Power Production Equipment (323)	278,732				278,732	18
Electric Pumping Equipment (325)	584,896				584,896	19
Diesel Pumping Equipment (326)	0				0	20
Other Pumping Equipment (328)	0				0	21
Total Pumping Plant	1,468,519	20,919	0	0	1,489,438	22
WATER TREATMENT PLANT						23
Land and Land Rights (330)	0				0	24
Structures and Improvements (331)	13,671				13,671	25
Sand or Other Media Filtration Equipment (332)	77,092				77,092	26
Membrane Filtration Equipment (333)	0				0	27
Other Water Treatment Equipment (334)	0				0	28
Total Water Treatment Plant	90,763	0	0	0	90,763	29
TRANSMISSION AND DISTRIBUTION PLANT						30
Land and Land Rights (340)	13,206				13,206	31
Structures and Improvements (341)	1,611				1,611	32
Distribution Reservoirs and Standpipes (342)	1,342,099				1,342,099	33
Transmission and Distribution Mains (343)	5,975,787	722,668	14,022		6,684,433	34
Services (345)	1,341,023	174,611	2,755		1,512,879	35
Meters (346)	738,250	59,891	23,258		774,883	36
Hydrants (348)	735,085	114,389	6,697		842,777	37

Water Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$100,000 (class AB) or \$50,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Other Transmission and Distribution Plant (349)	973				973	38
Total Transmission and Distribution Plant	10,148,034	1,071,559	46,732	0	11,172,861	39
GENERAL PLANT						40
Land and Land Rights (389)	0				0	41
Structures and Improvements (390)	410,390	2,431			412,821	42
Office Furniture and Equipment (391)	62,497				62,497	43
Computer Equipment (391.1)	55,313				55,313	44
Transportation Equipment (392)	55,920				55,920	45
Stores Equipment (393)	8,270				8,270	46
Tools, Shop and Garage Equipment (394)	47,309				47,309	47
Laboratory Equipment (395)	0				0	48
Power Operated Equipment (396)	102,034				102,034	49
Communication Equipment (397)	37,858				37,858	50
SCADA Equipment (397.1)	458,421				458,421	51
Miscellaneous Equipment (398)	89				89	52
Total General Plant	1,238,101	2,431	0	0	1,240,532	53
Total utility plant in service directly assignable	13,552,782	1,094,909	46,732	0	14,600,959	54
Common Utility Plant Allocated to Water Department	0				0	55
TOTAL UTILITY PLANT IN SERVICE	13,552,782	1,094,909	46,732	0	14,600,959	56

Water Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$100,000 (class AB) or \$50,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
INTANGIBLE PLANT						1
Organization (301)	0				0	2
Franchises and Consents (302)	0				0	3
Miscellaneous Intangible Plant (303)	0				0	4
Total Intangible Plant	0	0	0	0	0	5
SOURCE OF SUPPLY PLANT						6
Land and Land Rights (310)	0				0	7
Structures and Improvements (311)	0				0	8
Collecting and Impounding Reservoirs (312)	0				0	9
Lake, River and Other Intakes (313)	0				0	10
Wells and Springs (314)	0				0	11
Supply Mains (316)	0				0	12
Other Water Source Plant (317)	0				0	13
Total Source of Supply Plant	0	0	0	0	0	14
PUMPING PLANT						15
Land and Land Rights (320)	0				0	16
Structures and Improvements (321)	0				0	17
Other Power Production Equipment (323)	0				0	18
Electric Pumping Equipment (325)	0				0	19
Diesel Pumping Equipment (326)	0				0	20
Other Pumping Equipment (328)	0				0	21
Total Pumping Plant	0	0	0	0	0	22
WATER TREATMENT PLANT						23
Land and Land Rights (330)	0				0	24
Structures and Improvements (331)	0				0	25
Sand or Other Media Filtration Equipment (332)	0				0	26
Membrane Filtration Equipment (333)	0				0	27
Other Water Treatment Equipment (334)	0				0	28
Total Water Treatment Plant	0	0	0	0	0	29
TRANSMISSION AND DISTRIBUTION PLANT						30
Land and Land Rights (340)	0				0	31
Structures and Improvements (341)	0				0	32
Distribution Reservoirs and Standpipes (342)	613,751				613,751	33
Transmission and Distribution Mains (343)	4,453,397	594,766	11,944		5,036,219	34
Services (345)	1,011,334	87,356	2,475		1,096,215	35
Meters (346)	0				0	36
Hydrants (348)	562,740	74,250	5,631		631,359	37

Water Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$100,000 (class AB) or \$50,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Other Transmission and Distribution Plant (349)	0				0	38
Total Transmission and Distribution Plant	6,641,222	756,372	20,050	0	7,377,544	39
GENERAL PLANT						40
Land and Land Rights (389)	0				0	41
Structures and Improvements (390)	0				0	42
Office Furniture and Equipment (391)	0				0	43
Computer Equipment (391.1)	0				0	44
Transportation Equipment (392)	1,000				1,000	45
Stores Equipment (393)	0				0	46
Tools, Shop and Garage Equipment (394)	0				0	47
Laboratory Equipment (395)	0				0	48
Power Operated Equipment (396)	0				0	49
Communication Equipment (397)	0				0	50
SCADA Equipment (397.1)	0				0	51
Miscellaneous Equipment (398)	0				0	52
Total General Plant	1,000	0	0	0	1,000	53
Total utility plant in service directly assignable	6,642,222	756,372	20,050	0	7,378,544	54
Common Utility Plant Allocated to Water Department	0				0	55
TOTAL UTILITY PLANT IN SERVICE	6,642,222	756,372	20,050	0	7,378,544	56

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)
SOURCE OF SUPPLY PLANT								
Structures and Improvements (311)	0							0
Collecting and Impounding Reservoirs (312)	0							0
Lake, River and Other Intakes (313)	0							0
Wells and Springs (314)	352,437	2.90%	17,276					369,713
Supply Mains (316)	0							0
Other Water Source Plant (317)	0							0
Total Source of Supply Plant	352,437		17,276	0	0	0	0	369,713
PUMPING PLANT								
Structures and Improvements (321)	406,915	3.20%	19,691					426,606
Other Power Production Equipment (323)	234,722	4.40%	12,264					246,986
Electric Pumping Equipment (325)	573,221	4.40%	11,675					584,896
Diesel Pumping Equipment (326)	0							0
Other Pumping Equipment (328)	0							0
Total Pumping Plant	1,214,858		43,630	0	0	0	0	1,258,488
WATER TREATMENT PLANT								
Structures and Improvements (331)	11,111	3.20%	437					11,548
Sand or Other Media Filtration Equipment (332)	77,092	3.30%						77,092
Membrane Filtration Equipment (333)	0							0
Other Water Treatment Equipment (334)	0							0
Total Water Treatment Plant	88,203		437	0	0	0	0	88,640
TRANSMISSION AND DISTRIBUTION PLANT								
Structures and Improvements (341)	1,490	3.20%	52					1,542
Distribution Reservoirs and Standpipes (342)	400,395	1.90%	25,500					425,895
Transmission and Distribution Mains (343)	864,248	1.30%	77,820	14,022	19,675			908,371
Services (345)	411,017	2.90%	38,423	2,755				446,685
Meters (346)	267,916	5.50%	41,611	23,258	2,694			288,963

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)
Hydrants (348)	167,057	2.20%	16,696	6,697				177,056
Other Transmission and Distribution Plant (349)	973	5.00%						973
Total Transmission and Distribution Plant	2,113,096		200,102	46,732	19,675	2,694	0	2,249,485
GENERAL PLANT								
Structures and Improvements (390)	163,465	2.90%	11,937					175,402
Office Furniture and Equipment (391)	46,998	5.80%	3,625					50,623
Computer Equipment (391.1)	58,080	26.70%						58,080
Transportation Equipment (392)	22,802	10.00%	6,247					29,049
Stores Equipment (393)	1,274	5.80%	127					1,401
Tools, Shop and Garage Equipment (394)	37,853	5.80%	2,744					40,597
Laboratory Equipment (395)	0							0
Power Operated Equipment (396)	61,579	10.00%	6,262					67,841
Communication Equipment (397)	37,858	10.00%						37,858
SCADA Equipment (397.1)	316,881	9.20%	42,175					359,056
Miscellaneous Equipment (398)	94	5.80%						94
Total General Plant	746,884		73,117	0	0	0	0	820,001
Total accum. prov. directly assignable	4,515,478		334,562	46,732	19,675	2,694	0	4,786,327
Common Utility Plant Allocated to Water Department	0							0
TOTAL ACCUM. PROV. FOR DEPRECIATION	4,515,478		334,562	46,732	19,675	2,694	0	4,786,327

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality (Page W-10)

End of Year Balance is greater than the equivalent Plant in Service (Financed by Utility or Municipality) EOY Balance, please explain.

Accounts 391.1 and 398 are slightly over appreciated. No depreciation will be taken until new plant is recorded.

Water Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	1
SOURCE OF SUPPLY PLANT									
Structures and Improvements (311)	0							0	2
Collecting and Impounding Reservoirs (312)	0							0	3
Lake, River and Other Intakes (313)	0							0	4
Wells and Springs (314)	0							0	5
Supply Mains (316)	0							0	6
Other Water Source Plant (317)	0							0	7
Total Source of Supply Plant	0		0	0	0	0	0	0	8
PUMPING PLANT									
Structures and Improvements (321)	0							0	10
Other Power Production Equipment (323)	0							0	11
Electric Pumping Equipment (325)	0							0	12
Diesel Pumping Equipment (326)	0							0	13
Other Pumping Equipment (328)	0							0	14
Total Pumping Plant	0		0	0	0	0	0	0	15
WATER TREATMENT PLANT									
Structures and Improvements (331)	0							0	17
Sand or Other Media Filtration Equipment (332)	0							0	18
Membrane Filtration Equipment (333)	0							0	19
Other Water Treatment Equipment (334)	0							0	20
Total Water Treatment Plant	0		0	0	0	0	0	0	21
TRANSMISSION AND DISTRIBUTION PLANT									
Structures and Improvements (341)	0							0	23
Distribution Reservoirs and Standpipes (342)	64,137	1.90%	11,661					75,798	24
Transmission and Distribution Mains (343)	1,106,717	1.30%	66,155	11,944				1,160,928	25
Services (345)	501,235	2.90%	33,519	2,475				532,279	26
Meters (346)	0							0	27

Water Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)
Hydrants (348)	214,066	2.20%	13,794	5,631				222,229
Other Transmission and Distribution Plant (349)	0							0
Total Transmission and Distribution Plant	1,886,155		125,129	20,050	0	0	0	1,991,234
GENERAL PLANT								
Structures and Improvements (390)	0							0
Office Furniture and Equipment (391)	0							0
Computer Equipment (391.1)	0							0
Transportation Equipment (392)	1,000	10.00%						1,000
Stores Equipment (393)	0							0
Tools, Shop and Garage Equipment (394)	0							0
Laboratory Equipment (395)	0							0
Power Operated Equipment (396)	0							0
Communication Equipment (397)	0							0
SCADA Equipment (397.1)	0							0
Miscellaneous Equipment (398)	0							0
Total General Plant	1,000		0	0	0	0	0	1,000
Total accum. prov. directly assignable	1,887,155		125,129	20,050	0	0	0	1,992,234
Common Utility Plant Allocated to Water Department	0							0
TOTAL ACCUM. PROV. FOR DEPRECIATION	1,887,155		125,129	20,050	0	0	0	1,992,234

Age of Water Mains

- If asset management, capital improvement, or other infrastructure-related documents are not available, the utility should consult other potential sources of information: the year the utility was formed, year of initial build-out area, year in which new developments, subdivisions, etc. were added. This information can be used to develop estimated figures.
- If pipe diameter value is between those offered in the column, choose the diameter that is closest to the actual value.
- Report all pipe larger than 72" in diameter in the 72" category.

Pipe Size (a)	Feet of Main										Total (l)
	pre-1900 (b)	1901-1920 (c)	1920-1940 (d)	1941-1960 (e)	1961-1970 (f)	1971-1980 (g)	1981-1990 (h)	1991-2000 (i)	2001-2010 (j)	2011-2020 (k)	
1.000			143			45			40		228
1.250				146							146
2.000					292		471				763
4.000		37,699	4,308	1,941	1,248	1,698	826	486	388	1,323	49,917
6.000		2,896	7	24,947	18,695	2,980	9,543	2,177	3,582	1,189	66,016
8.000		4,053	532	7,694	31,964	13,129	39,477	2,883	10,394	11,799	121,925
10.000		1,094	47	1,760	17,327	19,571	40,969	10,911	25,743	16,727	134,149
12.000					1,082	1,411	53	17	4,951		7,514
Total	0	45,742	5,037	36,488	70,608	38,834	91,339	16,474	45,098	31,038	380,658

If utility is unable to provide the detailed information above, utility must provide the following:
 All utility main is from this year range
 (Example: 1954-1972)

Describe source of information used to develop data:
These records are detailed in an ESRI mapping database. All units were continuously verified using mapping tools in the field.

Sources of Water Supply - Statistics

- For Raw Water Withdrawn, use metered volume of untreated water withdrawn from the source.
- For Finished Water Pumped, use metered volume of treated water entering the distribution network, adjusted for known meter errors.
- If Finished Water is not metered, use Raw Water Withdrawn and subtract estimated water used in treatment.

Month (a)	Sources of Water Supply (000's gal)						Total Gallons	
	Raw Water Withdrawn		Finished Water Pumped		Purchased Water (Imported)		Entering Distribution	
	Ground Water (b)	Surface Water (c)	Ground Water (d)	Surface Water (e)	Ground Water (f)	Surface Water (g)	System (h)	
January	42,976		42,976				42,976	1
February	40,703		40,703				40,703	2
March	42,714		42,714				42,714	3
April	40,784		40,784				40,784	4
May	43,744		43,744				43,744	5
June	49,688		49,688				49,688	6
July	49,430		49,430				49,430	7
August	46,456		46,456				46,456	8
September	43,768		43,768				43,768	9
October	44,027		44,027				44,027	10
November	43,472		43,472				43,472	11
December	42,207		42,207				42,207	12
TOTAL	529,969	0	529,969	0	0	0	529,969	13

Water Audit and Other Statistics

- Where possible, report actual metered values. If water uses are not metered, estimate values for each line based on best available information. For assistance, refer to AWWA M36 Manual – Water Audits and Loss Control Programs.
- For unbilled, unmetered gallons (line 16), include water used for system operation and maintenance and water used for non-regulated sewer utility.
- If gallons estimated due to theft, data, and billing errors is unknown, multiply net gallons entering distribution system (line 3) by .0025.

Description (a)	Value (b)
WATER AUDIT STATISTICS	
Finished Water pumped or purchased (000s)	529,969
Less: Gallons (000s) sold to wholesale customers (exported water)	0
Subtotal: Net gallons (000s) entering distribution system	529,969
Less: Gallons (000s) sold to retail customers - Billed Authorized Consumption	473,644
Gallons (000s) of Non-Revenue Water	56,325
Gallons (000s) of unbilled-metered (including customer use to prevent freezing)	0
Gallons (000s) of unbilled-unmetered (including unmetered flushing, fire protection)	7,020
Subtotal: Unbilled Authorized Consumption	7,020
Total Water Loss	49,305
Gallons (000s) estimated due to theft, data, and billing errors (default)	0
Gallons (000s) estimated due to customer meter under-registration	0
Subtotal Apparent Losses	0
Gallons (000s) estimated due to reported leakage (mains, services, hydrants, overflows)	3,407
Gallons (000s) estimated due to unreported and background leakage	45,898
Subtotal Real Losses (leakage)	49,305
Non-Revenue Water as percentage of net water supplied	11%
Total Water Loss as percentage of net water supplied	9%
OTHER STATISTICS	
Maximum gallons (000s) pumped by all methods in any one day during reporting year	2,310
Date of maximum	06/22/2016
Cause of maximum	
Weather conditions	
Minimum gallons (000s) pumped by all methods in any one day during reporting year	953
Date of minimum	01/01/2016
Total KWH used by the utility (including pumping, treatment facilities and other utility operations)	981,442
If water is purchased:	
Vendor Name	
Point of Delivery	
Source of purchased water	
Vendor Name (2)	
Point of Delivery (2)	
Source of purchased water (2)	
Vendor Name (3)	
Point of Delivery (3)	
Source of purchased water (3)	
Number of main breaks repaired this year	3
Number of service breaks repaired this year	7

Sources of Water Supply - Well Information

- Enter characteristics for each of the utility's functional wells (regardless of whether it is "in service" or not).
- Do not include abandoned wells on this schedule.
- All abandoned wells should be retired from the plant accounts and no longer listed in the utility's annual report.
- Abandoned wells should be permanently filled and sealed per Wisconsin Administrative codes Chapters NR811 and NR812.

Utility Name/ID for Well (a)	DNR Well ID (b)	Depth (feet) (c)	Casing Diameter (inches) (d)	Yield Per Day (gallons) (e)	In Service? (f)	
Well 4	BF551	969	15	1,880,000	Yes	1
Well 5	HR527	1,112	19	1,462,000	Yes	2
Well 6	BF566	1,132	18	1,498,000	Yes	3
Well 7	KW617	1,040	17	1,440,000	Yes	4
				6,280,000		5

Sources of Water Supply - Intake Information

--- THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY---

Pumping & Power Equipment

Identification (a)	Pump						Pump Motor or Standby Engine			
	Location (b)	Primary Purpose (c)	Primary Destination (d)	Year Installed (e)	Type (f)	Actual Capacity (gpm) (g)	Year Installed (j)	Type (k)	Horse-power (l)	
STAND BY WELL 5	W SOUTH & KING PUMPHOUSE	Standby	Distribution	1989	Other	2,000	1989	Natural Gas	125	1
STAND BY WELL 7	ROBY ROAD	Standby	Distribution	1998	Other	1,000	1998	Natural Gas	240	2
WELL 4	VAN BUREN/ROBY	Primary	Distribution	1963	Vertical Turbine	1,200	1963	Electric	125	3
WELL 5	W. SOUTH/KING	Primary	Distribution	1977	Vertical Turbine	1,200	1977	Electric	125	4
WELL 6	E. ACADEMY	Primary	Distribution	1986	Vertical Turbine	1,040	1986	Electric	125	5
WELL 7	2001 ROBY RD	Primary	Distribution	1998	Vertical Turbine	1,000	1998	Electric	125	6

Reservoirs, Standpipes and Elevated Tanks

- Enter elevation difference between highest water level in Standpipe or Elevated Tank, (or Reservoir only on an elevated site) and the water main where the connection to the storage begins branching into the distribution system.

Facility Name (a)	Facility ID Site Code (b)	Year Constructed (c)	Type (d)	Primary Material (e)	Elevation Difference in Feet (f)	Total Capacity In Gallons (g)	
Reservoir	1	1989	Reservoir	Concrete	0	400,000	1
Tower	2	1977	Elevated Tank	Steel	111	300,000	2
Tower	3	2010	Elevated Tank	Steel	186	600,000	3

Water Treatment Plant

- Provide a generic description for (a). Do not give specific address of location.
- Please select all that apply for (d) and (e). If Other is selected please explain in Notes (h).
- Please identify the point of application for each treatment plant for (g). For example, please list each well or central treatment facility served by this unit.

Unit Description (a)	Year Constructed (b)	Rated Capacity (mgd) (c)	Disinfection (d)	Additional Treatment (e)	Fluoridated (f)	Point of Application (g)	Notes (h)
2	1989	1	<ul style="list-style-type: none"> – Ultraviolet Light x Liquid Chlorine – Gas Chlorine – Ozone – Other – None 	<ul style="list-style-type: none"> – Flocculation/Sedimentation – Sand Filtration – Activated Carbon Filtration – Membrane Filtration – Iron Exchange – Iron/Manganese – Nutrient Removal – Radium Removal – Other 	Yes	Wellhouse	1
3	2010	2	<ul style="list-style-type: none"> – Ultraviolet Light x Liquid Chlorine – Gas Chlorine – Ozone – Other – None 	<ul style="list-style-type: none"> – Flocculation/Sedimentation – Sand Filtration – Activated Carbon Filtration – Membrane Filtration – Iron Exchange – Iron/Manganese – Nutrient Removal – Radium Removal – Other 	Yes	Wellhouse	2
ET 2	1977	2	<ul style="list-style-type: none"> – Ultraviolet Light x Liquid Chlorine – Gas Chlorine – Ozone – Other – None 	<ul style="list-style-type: none"> – Flocculation/Sedimentation – Sand Filtration – Activated Carbon Filtration – Membrane Filtration – Iron Exchange – Iron/Manganese – Nutrient Removal – Radium Removal – Other 	Yes	Wellhouse	3

Water Mains

- Report mains separately by pipe material, function, diameter and either within or outside the municipal boundaries.
- Explain all reported adjustments as a schedule footnote.
- For main additions reported in column (e), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If the assessments are deferred, explain.
- Report all pipe larger than 72" in diameter in the 72" category.

Pipe Material (a)	Main Function (b)	Diameter (inches) (c)	Number of Feet			Adjustments Increase or (Decrease) (g)	End of Year (h)	
			First of Year (d)	Added During Year (e)	Retired During Year (f)			
Other Metal	Distribution	4	52,665		1,611		51,054	1
Other Metal	Distribution	6	67,895	532	2,411		66,016	2
Other Metal	Distribution	8	116,006	6,253	334		121,925	3
Other Metal	Distribution	10	127,441	6,660	182		133,919	4
Other Metal	Supply	10	230				230	5
Other Metal	Distribution	12	7,514				7,514	6
Total Within Municipality			371,751	13,445	4,538		380,658	7
Total Utility			371,751	13,445	4,538		380,658	8

Water Mains

- Report mains separately by pipe material, function, diameter and either within or outside the municipal boundaries.
- Explain all reported adjustments as a schedule footnote.
- For main additions reported in column (e), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If the assessments are deferred, explain.
- Report all pipe larger than 72" in diameter in the 72" category.

Water Mains (Page W-21)

Added During Year total is greater than zero, please explain financing following the criteria listed in the schedule headnotes.

Van Buren Street and Clyde Street - Financed by utility

Nordic Ridge - Financed by developer

Kettle Park West (Phase 1) - Developer and TIF financed

Skaalen Homes - Financed by developer

Water Service Laterals

- The utility's service lateral is the pipe from the main to and through the curb stop.
- Explain all reported adjustments as a schedule footnote.
- Report in column (h) the number of utility-owned service laterals included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- For service laterals added during the year in column (d), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If installed by a property owner or developer, explain the basis of recording the cost of the additions, the total amount and the number of service laterals recorded under this method.
 - If any were financed by application of Cz-1, provide the total amount recorded and the number of service laterals recorded under this method.
- Report service laterals separately by diameter and pipe materials.

Pipe Material (a)	Diameter (inches) (b)	First of Year (c)	Added During Year (d)	Removed or Permanently Disconnected During Year (e)	Adjustments Increase or (Decrease) (f)	End of Year (g)	Utility Owned Service Laterals Not in Use at End of Year (h)	
Lead	0.625	1			(1)	0		1
Other Metal	0.625	1			(1)	0		2
Lead	1.000	757		8	(71)	678		3
Other Metal	1.000	3,427	100	52	(53)	3,422	58	4
Other Metal	1.250	4			1	5		5
Other Metal	1.500	14			1	15		6
Lead	2.000	1			(1)	0		7
Other Metal	2.000	18			3	21		8
Lead	4.000	1			(1)	0		9
Other Metal	4.000	49	1		(9)	41		10
Other Metal	6.000	95	9		(2)	102	9	11
Lined Cast Iron (mide-1950's to early 1970)	8.000	48			9	57		12
Other Metal	8.000		1			1	1	13
Lined Cast Iron (mide-1950's to early 1970)	10.000	16			(15)	1		14
Utility Total		4,432	111	60	(140)	4,343	68	15

Water Service Laterals

- The utility's service lateral is the pipe from the main to and through the curb stop.
- Explain all reported adjustments as a schedule footnote.
- Report in column (h) the number of utility-owned service laterals included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- For service laterals added during the year in column (d), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If installed by a property owner or developer, explain the basis of recording the cost of the additions, the total amount and the number of service laterals recorded under this method.
 - If any were financed by application of Cz-1, provide the total amount recorded and the number of service laterals recorded under this method.
- Report service laterals separately by diameter and pipe materials.

Water Service Laterals (Page W-22)

Additions are greater than zero, please explain financing by following criteria listed in the schedule headnotes.

Lead services were replaced as part of the larger street projects.

Van Buren and Clyde Street projects were utility financed.

The Nordic Ridge and Skaalen Homes developments were developer financed.

Adjustments are nonzero for one or more accounts, please explain.

All counts are adjusted in 2016 to equal actual laterals confirmed with GIS locating over the past three years.

Meters

- Include in Columns (b-f) meters in stock as well as those in service.
- Report in Column (c) all meters purchased during the year and in Column (d) all meters junked, sold or otherwise permanently retired during the year.
- Use Column (e) to show correction to previously reported meter count because of inventory or property record corrections
- Totals by size in Column (f) should equal same size totals in Column (s).
- Explain all reported adjustments as schedule footnote.
- Do not include station meters in the meter inventory used to complete these tables.

Number of Utility-Owned Meters

Classification of All Meters at End of Year by Customers

Size of Meter	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
		First of Year	Added During Year	Retired During Year	Adjust. Increase or Decrease	End of Year	Tested During Year	Residential	Commercial	Industrial	Public Authority	Multifamily Residential	Irrigation	Wholesale	Inter-Departmental	Utility Use	Deduct Meters	In Stock	Total
5/8	4,759	278	261	4,776	282	4,483	254	5	61	4	9	20	8	21	2	1	5	4,776	1
1	101	33	32	102	33	5	34	5	34	2	9	19	20	9	2	1	1	102	2
1 1/2	66	1	1	66	4	4	23	4	23	4	11	14	14	11	1	1	2	66	3
2	52	2	0	54	2	4	4	4	4	4	4	4	4	4	1	1	1	54	4
3	9	3	0	12	1	4	4	4	4	4	4	4	4	4	1	1	1	12	5
4	7	0	0	7	0	5	5	2	5	2	2	2	2	2	3	3	9	7	6
Total	4,994	317	294	5,017	322	4,488	381	21	50	65	21	50	65	3	3	9	5,017	7	7

1. Indicate your residential meter replacement schedule:

- Meters tested once every 10 years and replaced as needed
- All meters replaced within 20 years of installation
- Other schedule as approved by PSC

2. Indicate the method(s) used to read customer meters

- Manually - remote register
- Manually - inside the premises
- Radio Frequency - Drive or walk-by technology
- Radio Frequency - fixed network or other automatic infrastructure (AMI)
- Other

Hydrants and Distribution System Valves

- Distinguish between fire and flushing hydrants by lead size.
 - Fire hydrants normally have a lead size of 6 inches or greater.
 - Record as a flushing hydrant where the lead size is less than 6 inches or if pressure is inadequate to provide fire flow.
- Explain all reported adjustments in the schedule footnotes.
- Report fire hydrants as within or outside the municipal boundaries.

Hydrant Type (a)	Number In Service First of Year (b)	Added During Year (c)	Removed During Year (d)	Adjustments Increase or (Decrease) (e)	Number In Service End of Year (f)	
Fire - Outside Municipality	0				0	1
Fire - Within Municipality	660	33	7		686	2
Total Fire Hydrants	660	33	7	0	686	3
Flushing Hydrants	0				0	4

NR810.13(2)(a) recommends that a schedule shall be adopted and followed for operating each system valve and hydrant at least once each two years. Please provide the number operated during the year.

Number of Hydrants operated during year	653
Number of Distribution System Valves end of year	1,943
Number of Distribution Valves operated during Year	288

List of All Station and Wholesale Meters

- Definition of Station Meter is any meter in service not used to measure customer consumption.
- Definition of Wholesale Meter is any meter used to measure sales to other utilities.
- Retail customer meters should not be included in this inventory.

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Water Conservation Programs

- List all water conservation-related expenditures for the reporting year. Include administrative costs, customer outreach and education, other program costs, and payments for rebates and other customer incentives.
- If the Commission has approved conservation program expenses, these should be charged to Account 186. Otherwise, these expenses are reported in Account 906 on Schedule W-05 (Account 691 for class D utilities).

Item Description (a)	Expenditures (b)	Number of Rebates (c)	Water Savings Gallons (d)	
Administrative and General Expenses				1
Program Administration	0	0	0	2
Customer Outreach & Education	0	0	0	3
Other Program Costs	0	0	0	4
Total Administrative and General Expenses	0	0	0	5
Customer Incentives				6
Residential Toilets	0	0	0	7
Multifamily/Commercial Toilets	0	0	0	8
Faucets	0	0	0	9
Showerheads	0	0	0	10
Clothes Washers	0	0	0	11
Dishwashers	0	0	0	12
Smart Irrigation Controller	0	0	0	13
Commercial Pre-Rinse Spray Valves	0	0	0	14
Cost Sharing Projects (Nonresidential Customers)	0	0	0	15
Customer Water Audits	0	0	0	16
Other Incentives	0	0	0	17
Total Customer Incentives	0	0	0	18
TOTAL CONSERVATION	0	0	0	19

Water Customers Served

- List the number of customer accounts in each municipality for which your utility provides retail general service. Do not include wholesale customers or fire protection accounts.
- Per Wisconsin state statute, a city, village, town or sanitary district owning water plant or equipment may serve customers outside its corporate limits, including adjoining municipalities. For purposes of this schedule, customers located "Within Muni Boundary" refers to those located inside the jurisdiction that owns the water utility.

Municipality (a)	Customers End of Year (b)	
Stoughton (City) **	4,947	1
Total - Dane County	4,947	2
Total - Customers Served	4,947	3
Total - Within Muni Boundary **	4,947	4

** = *Within municipal boundary*



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017

To: Stoughton Utilities Committee

From: Robert P. Kardasz, P.E.
Stoughton Utilities Director

Brian R. Hoops
Assistant Stoughton Utilities Director

Subject: Stoughton Utilities Goals Status Report

The utility industry is always evolving and changing due to enhancements in technology, new threats to cyber and physical security, changing regulations, improvements in equipment and employee safety, an aging workforce, and more. Stoughton Utilities has developed the goals listed below to remain competitive in the current day and age, as well as to provide a roadmap for the future.

The following status report is provided for discussion.

Provide safe and reliable electric, wastewater and water service, in compliance with all applicable regulations

Achieved in all divisions while waiting for the reissuance of our new wastewater Wisconsin Pollutant Discharge Elimination System (WPDES) Permit. Systems are continually reviewed, with aging infrastructure upgraded to current standards. Leadership staff regularly participate in seminars and conferences provided by the regulatory agencies to remain knowledgeable in current and proposed regulations, as well as to influence rulemakers.

Stoughton Utilities maintains its infrastructure to provide high reliability, utilizing system improvements, tree trimming, routine maintenance and cleaning, infrastructure replacement, system inspections and surveys, and more.

Reduction of lead services across the town remains a goal of Stoughton Utilities, with progress being made annually for the past two decades, and increasing progress planned for upcoming years. This goal will include the creation of local rules and regulations, funding incentives and assistance, and more.

Influence state and federal rule making that benefit our customers

Achieved in part through our membership in WPPI Energy, Municipal Electric Utilities of Wisconsin (MEUW), Wisconsin Chapter of the American Waterworks Association (AWWA), American Public Power Association (APPA), and Wisconsin Rural Water Association (WRWA), as well as numerous other trade organizations.

In addition, leadership staff participates in numerous opportunities to influence state and federal lawmakers, and have lead efforts to maintain tax-exempt municipal bonds, retain the primacy of air emission regulation with the Wisconsin Department of Natural Resources, maintain acceptable approaches to cyber and physical security requirements, maintain local control of utility policy, champion infrastructure improvement and investment, and more.

Insure that all customers are categorized for the optimum rate available to them

Achieved through ongoing customer monitoring, communications, and account/consumption reviews, utilizing both automated and manual review processes.

Provide our customers accurate and timely billing statements

Achieved by ensuring a well-trained and experienced workforce, ongoing training on billing processes and regulatory requirements, including cross training both within and outside individual divisions, thorough review processes, and regular technological improvements.

We utilize our automatic meter reading (AMR) system to obtain timely and accurate meter readings, an advanced Customer Information System (CIS) to perform accurate bill calculations and account reviews, an outsourced print and mail service to provide timely delivery of billing statements while minimizing staff effort, email delivery of paperless billing statements, and more to achieve this goal.

Offer billing presentation and payment opportunities that meet and exceed our customers' expectations, and remain competitive with those offered by our larger competitors

Achieved with the introduction of a secure curbside 24/7 deposit box in 1996, reoccurring ACH bank draft payments in the late 1990's, credit card payments in-person and by phone back in 2002, online E-Pay in 2004, desktop remote check image capture in 2008, recurring cred/debit card payments in 2008, electronic acceptance of third-party online banking services in 2011, and an outsourced lockbox check processing service in 2012... all while maintaining a local office to accept in-person payments and customer service, and requiring no "convenience" charges to customers.

Just 41% of our customers currently pay by the traditional check. 28% participate in our AutoPay program, 14% pay online through our *MyAccount* online portal, 8% pay electronically through their bank's online banking system, 4% initiate contact to pay with a credit card, and 2% pay with cash.

Paperless E-Billing was introduced to customers in 2012, and we currently have 1,224 customers receiving paperless bills for 1,350 accounts, which is a 14% participation rate. Not only does this increase customer convenience, but it also benefits the utility, saving \$10,951 in statement print and mail costs, as well as benefiting the environment by reducing paper waste.

Maintain a business culture of environmental stewardship

Achieved through wastewater solids byproduct injection as nutrients into local farm fields, utilizing wastewater treatment methane product heats the wastewater treatment facility buildings, offering of paperless E-Billing to customers, paperless distribution and receipt of meeting agendas and packets, increasing paperless systems for field staff utilizing mobile tablets, and participation in our Green Power for Business program where we purchase 100% renewable energy for our electric and wastewater utility operations.

Also achieved through the installation of solar panels on our administration building, offering of solar buyback rate tariffs to our customers, various energy efficiency incentives and rebates, participation in local corporate energy efficiency teams, utilization of hybrid vehicles within our fleet, the offering and promotion of our residential renewable energy and green power for businesses programs, and our partnership with and funding of Wisconsin's Focus on Energy.

Develop customer programs and rate options that promote conservation

Achieved through our periodic energy savings challenge, partnership with Focus on Energy, energy conservation themed incentive programs and giveaways, solar buyback tariffs, and more.

Seek new, and maintain existing joint action partnerships that benefit our customers

Achieved in all divisions through active participation in WPPI Energy, Rock River Basin Wastewater TMDL Group, the Municipal Environmental Group, Yahara WINS Adaptive Management Program, Municipal Electric Utilities of Wisconsin, American Public Power Association, Wisconsin Chapter of the American Waterworks Association, and more.

Provide community education, and remain a utility informational clearinghouse for our customers

Achieved through our online website, including periodic news articles, publications, and online document library, monthly statement inserts, informational bill-print messages, participation in the quarterly Tower Times, frequent submittals of press releases to area newspapers, participation in energy safety presentations at Stoughton Schools, hosting of informational sessions such as Leadership Stoughton and Chamber of Commerce Lunch and Learn, thorough presentation of communication items to the Utilities Committee governing body, regular paid advertisements promoting conservation and the value of Public Power, and more.

Provide a customer service staff that is open, understanding, and accessible to our customers

Achieved through ongoing training and customer interaction, and offering customer service by the customer's preferred methods, including our online *MyAccount* portal, email, phone, mail, or in-person.

Operate a highly professional utility with appreciation for our history and vision for our future.

Achieved through ongoing professional training, cross training, team meetings, peer discussions, and the stabilization of our workforce.

Create career pathways and educational opportunities for our staff, maintain a safe work environment at all times, and ensure that they are compensated appropriately and receive competitive benefit packages.

Achieved utility wide, and offering a competitive compensation program for our staff to be reviewed annually using available market and peer data to ensure competitive compensation and maintain lengthy employee tenures. All employees receive periodic training related to their current duties, as well as cross-training opportunities, and learning opportunities related to their projected career pathways.

As of January 2016, the BLS estimates the median employee tenure in the U.S. to be 4.2 years; median tenure at Stoughton Utilities is 7 years, with an average tenure of 13 years.

Through our partnership with MEUW, we have an onsite Safety Coordinator who maintains safety programs and policies and procedures, performs regular employee training and testing, performs regular inspections and reviews of job site staging and safety, and more, ensuring our staff and management do everything we can to ensure the safety of employees and the public at all times.

Utilize evolving methods, technologies, and independent studies that create new opportunities to improve the service to our customers

Achieved through a variety of technologies, including regular enhancements to the electric, wastewater and water SCADA (Supervisory Control and Data Acquisition) Systems, periodic engineering system studies, system improvement forecasting and scheduling, creation and adherence to a 20-year Capital Improvements Plan, implementation of current information technologies for server and workstation

platforms, custom software programming to streamline operations, utilization of current mobile technologies to empower a connected workforce in the field, and more.

Promote smart and sustainable development to encourage new customers and utility revenue growth

Achieved through partnerships with the City of Stoughton, local developers and engineers, Stoughton's governing bodies, current and prospective commercial and industrial customers, and participation in the Chamber of Commerce. Also achieved through maintaining highly competitive utility rates across all divisions, providing safe and reliable systems and services, offering valuable customer incentives, offering building and design assistance programs, and more.

Give back to the community, and be an active participant in community events and affairs

Achieved through our Commitment to Community program, annual scholarship program, children's safety presentations in the schools and summer camps, numerous customer incentives for energy efficiency and savings, our RoundUP donation program and biannual donations, monetary donations to community groups and economic development programs, low-income bill payment assistance, and more.

Also achieved through our participation in Syttende Mai events, the Coffee Break Festival, the annual Truck Day event, our annual Public Power Week open house and community event, attendance at Stoughton City Council meetings, educational tours and presentations, and more.

Position Stoughton Utilities to remain financially stable in both short and long-term forecasts

Achieved through periodic rate analysis and review utilizing in-house and WPPI Energy financial staff, regular rate adjustment applications to the Wisconsin PSC as needed, creation and maintenance of strategic investment and cash policies, annual financial audits, protection of utility infrastructure and other assets, maintenance and utilization of insurance policies, maintenance of in-house expertise to perform periodic financial monitoring and set strategies based upon current circumstances, and creation and maintenance of strategic borrowing and finance policies.



Stoughton Utilities

600 South Fourth Street
P.O. Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017

To: Stoughton Utilities Committee

From: Robert P. Kardasz, P.E.
Stoughton Utilities Director

Jamin T. Friedl, CPA
Stoughton Utilities Finance Manager

Brian R. Hoops
Stoughton Utilities Assistant Director

Subject: 2017 Water and Sanitary Sewer Replacement Project

Stoughton Utilities is partnering with the City of Stoughton on several water and sanitary sewer replacement projects in 2017 throughout the city.

Included in the original bid package were sanitary sewer projects on Brickson Street, Giles Street between Morris and Henry, Henry Street between Giles and Main, Manilla Street, and South Harrison Street between Main and Hamilton. Also included were water system projects on Brickson Street, Henry Street between Ridge and Main, Park Street, Ridge Street between IKI and Cooper's Causeway, Manilla Street, and Milwaukee Street at South Monroe.

Bids for the project came in extremely favorable: \$90,449 under-budget for sanitary sewer projects and \$186,116 under-budget for water.

Because of these favorable bids, I am requesting that we add water main replacement on Giles Street between Henry and Morris to the project scope. This block has an undersized water main dating to the 1920s, an old fire hydrant, and lead water services. Replacement of the sanitary sewer on this block is already included in the project. Addition of this block will cost \$53,000, however the water system project shall remain \$113,116 below budget.

We are requesting that the Stoughton Utilities Committee approve the addition of water infrastructure replacement on Giles Street between Henry and Morris to the 2017 Water and Sanitary Sewer Replacement Project.



600 South Fourth Street P.O.
Box 383
Stoughton, WI 53589-0383

Serving Electric, Water & Wastewater Since 1886

Date: April 11, 2017

To: Stoughton Utilities Committee

From: Robert P. Kardasz, P.E.
Stoughton Utilities Director

Subject: Stoughton Utilities Committee Future Agenda Item(s)

This item appears on all agendas of Committees of the City of Stoughton.