# Memorandum

To: Mayor & Members of Council
From: Roxanne
Subject: General Information
Date: November 11, 2016

### CALENDAR

#### AGENDAS for Monday, November 14th

#### Electric Committee and Board of Public Affairs @6:30 рм

- 1. Approval of Minutes from October 10, 2016 the minutes are enclosed
- 2. Review/Approval of the Power Supply Cost Adjustment Factor for November 2016 the reports are attached
- 3. Electric Department Report for October 2016 is enclosed

#### Water/Sewer Committee @7:00 pm

- 1. Approval of Minutes from October 10, 2016 the meeting minutes are attached
- 2. Review of Water Rates Related to Water Plant Upgrade Project a. John Courtney will be at the meeting.
- 3. Review of Sewer Revenue Fund Cost of Service and Rate Review

#### Personnel Committee @7:15 pm

#### CANCELLATION

1. Municipal Properties/ED Committee

#### **INFORMATIONAL ITEMS**

- 1. OMEA Newsletter/November 2016
- 2. AMP Update/November 04, 2016
- 3. Press Release/Curbside Leaf Pickup

Records Retention - CM-11 - 2 Years

◄ Oct 2016			November 201	6		Dec 2016 ►
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7 7:00 pm City Council	<b>8</b> 10:30 am Privacy Comm. 4:30 pm BZA 5:00 pm Planning Comm.	9	10	11	12
13	<b>14</b> 6:30 pm Electric Comm 6:30 pm BOPA 7:00 pm Water/Sewer 7:15pm Personnel Comm	15	16	17	18	19
20	7:00 City Council	<b>22</b> 4:30 pm Civil Service	23	24 CLOSED Thanksgiving	25	26
27	28 6:30 Finance & Budget 7:30 Safety & Human Resources Comm.	29	<b>30</b> 6:30 pm Parks & Rec Board	01 DECEMBER	02 DECEMBER Budget F	03 DECEMBER

# City of Napoleon, Ohio

# **ELECTRIC COMMITTEE**

Meeting Agenda

# Monday, November 14, 2016 at 6:30 pm

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1) Approval of the Minutes from October 10, 2016 (In the absence of any objections or corrections, the *Minutes shall stand approved*)
- 2) Review/Approval of the Power Supply Cost Adjustment Factor for November, 2016: PSCAF three (3) month averaged factor-\$0.00499 (Prior PSCAF October 2016 factor-\$0.00982) JV2: \$0.101015 JV5: \$0.101015
- 3) Electric Department Report.
- 4) Any other matters currently assigned to the Committee
- 5) Adjournment

Gregory J. Heath Finance Director/Clerk of Council

## CITY OF NAPOLEON, OHIO

# **ELECTRIC COMMITTEE MEETING MINUTES**

Monday, October 10, 2016 at 6:30 pm

PRESENT	
Members	Travis Sheaffer-Chair (arrived at 6:33 pm), Patrick McColley, Dan Baer
Board of Public Affairs	Mike DeWit-Chair, Dr. David Cordes, Nick Frysinger
City Staff	Greg Heath, Finance Director/Clerk of Council
	Monica Irelan, City Manager
	Dennis Clapp, Electric Distribution Superintendent
Recorder	Roxanne Dietrich
Other	Newsmedia
ABSENT	
Call to Order	McColley called the Electric Committee Meeting to order at 6:30 pm.
Approval of Minutes from September 12, 2016	Minutes of the September 12, 2016 meeting stand approved as read with no objections or corrections.
Review/Approval of the	The Electric Power Supply Cost Adjustment Factor for October, 2016
Power Supply Cost	was presented for review.
Adjustment Factor for	
October, 2016	
Motion to Accept BOPA	Motion: Baer Second: McColley
Recommendation for	To accept the BOPA recommendation for approval of the Power Supply
Approval of Power	Cost Adjustment Factor for October, 2016 as follows:
Supply Cost Adjustment	PSCAF three (3) month averaged factor: \$0.00982
Factor	JV2: \$0.065472
	JV5: \$0.065472
Discussion	None
Passed	Roll call vote on above motion:
Yea-2	Yea–McColley, Baer
Nay-0	Nay

Electric Department Report	Dennie Clapp, Electric Distribution Superintendent gave the electric reports from September 2016, a copy of the detailed reports is attached.
	Clapp reported back to the committee on their question if other communities charge a service fee when a service man is sent out and the problem is on the customer side of the meter. He received twenty-four (24) responses, fifteen (15) do not charge and nine (9) do charge, the prices ranged from \$25 to \$700. Those who do not charge responded we want to be a great electric service for our customers and if they have any concern on anything related to electric or electrical wires we want them to call us and we will handle if the problem is ours and tell them what to do if the problem is not ours. We do not want our customers getting into the lines and getting hurt. Clapp said he personally doesn't think we have enough call-ins that would create enough revenue to offset insurance. DeWit said he totally would concur the only time would be if you need some caveat for someone who calls you every day for normal things. Clapp said one of the respondents did have someone that called in all the time and they started to charge them. DeWit said don't know if we need to have a change in the ordinance. Clapp said I don't want people not calling in because they are afraid they will be charged. McColley said it is nice to know we aren't outside of the realm. Clapp said I think we are where we need to be.
Motion to Remove Net	Motion: McColley Second: Baer
Metering Policy	Motion to remove Net Metering Policy from the agenda.
Passed	Roll call vote on above motion:
Yea-3	Yea-Sheaffer, McColley, Baer
Nay-0	Nay-
Motion to Adjourn Electric Committee Meeting	Motion: McColley Second: Baer To adjourn the Electric Committee at 6:42 pm.
Passed	Roll call on above motion:
Yea-3	Yea-Sheaffer, McColley, Baer
Nay-0	Nay-
<b>Approved</b>	
November 14, 2016	Travis Sheaffer, Chair

NOVEME	BER 2016					f Napoleon,							
		DETERN	INATION OF MO	<u> ONTHLY - POV</u>	WE	R SUPPLY		DST ADJUS	STMENT FAC	CTC	OR (PSCAF	-)	
AMP Billed	City	City Net (Prior Mo)	Purchased Power Supply Costs	Rolling 3-N	Mon	th Totals		Rolling 3 Month	Less: Fixed Base Power		PSCA Dollar		PSCAF 3 MONTH
Usage	Billing	kWh	(*Net of Known)	Current + P				Average	Supply		Difference		AVERAGED
Month	Month	Delivered	(Credit's)	kWh		Cost		Cost	Cost		+ or (-)		FACTOR
(a)	(b)	(c)	(d)	(e)		(f)		(g)	(h)		(i)		(j)
		Actual Billed	Actual Billed	c + prior 2 Mo	•	d + prior 2 Mo		f / e	\$0.07194 Fixed		g + h		i X 1.075
Oct '14	Dec '14	12,957,031	\$ 1,007,380.97	40,854,845		3,010,789.99	•	0.07369	• • • • •		0.00175		0.00189
Nov '14	Jan '15		\$ 1,048,435.47	39,521,652		2,928,938.99	т	0.07411			0.00217		0.00233
Dec '14	Feb '15		\$ 1,077,557.19	40,617,941		3,133,373.63		0.07714	. ( )	-	0.00520		0.00559
Jan '15	March '15	14,814,734	\$* 1,036,847.14	42,475,644		3,162,839.80	•	0.07446	' ' '		0.00252		0.00271
Feb '15	April '15	13,867,347		42,712,298		3,074,761.51		0.07199		\$	0.00005		0.00005
March '15	May '15	13,844,262	\$ 1,003,564.83	42,526,343	\$	3,000,769.15	\$	0.07056	' ' '	\$	(0.00138)	\$	(0.00148)
April '15	June '15	12,167,778	\$ 886,097.15	39,879,387	\$	2,850,019.16	\$	0.07147	' ' '	\$	(0.00047)	\$	(0.00051)
May '15	July '15	11,261,298	\$ 881,002.83	37,273,338	\$	2,770,664.81	\$	0.07433	<b>\$</b> (0.07194)	\$	0.00239	\$	0.00257
Jun '15	Aug '15	13,738,522	\$ 916,655.51	37,167,598	\$	2,683,755.49	\$	0.07221	\$ (0.07194)	\$	0.00027	\$	0.00029
Jul '15	Sep '15	15,053,827	\$ 979,654.01	40,053,647	\$	2,777,312.35	\$	0.06934	\$ (0.07194)	\$	(0.00260)	\$	(0.00280)
Aug '15	Oct '15	15,336,926	\$ 965,909.05	44,129,275	\$	2,862,218.57	\$	0.06486	\$ (0.07194)	\$	(0.00708)	\$	(0.00761)
Sept '15	Nov '15	14,245,268	\$ 1,020,249.35	44,636,021	\$	2,965,812.41	\$	0.06644	\$ (0.07194)	\$	(0.00550)	\$	(0.00591)
Oct '15	Dec '15	13,510,482	\$ 809,877.76	43,092,676	\$	2,796,036.16	\$	0.06488	\$ (0.07194)	\$	(0.00706)	\$	(0.00758)
Nov '15	Jan '16	13,060,476	\$ 939,293.49	40,816,226	\$	2,769,420.60	\$	0.06785	\$ (0.07194)	\$	(0.00409)	\$	(0.00440)
Dec '15	Feb '16	13,634,579	\$ 863,769.64	40,205,537	\$	2,612,940.89	\$	0.06499	\$ (0.07194)	\$	(0.00695)	\$	(0.00747)
Jan '16	Mar '16	14,813,772	\$ 1,060,489.73	41,508,827	\$	2,863,552.86	\$	0.06899	\$ (0.07194)	\$	(0.00295)	\$	(0.00317)
Feb '16	Apr '16	13,961,098	\$ 1,012,584.64	42,409,449	\$	2,936,844.01	\$	0.06925	\$ (0.07194)	\$	(0.00269)	\$	(0.00289)
Mar '16	May '16		\$ 1,017,837.14	41,749,917	\$	3,090,911.51	\$	0.07403		-	0.00209	\$	0.00225
Apr '16	June '16		\$ 897,981.75	39,069,120	\$	2,928,403.53	\$	0.07495		-	0.00301		0.00324
May '16	July '16	11,244,178	\$ 976,900.73	36,352,200	\$	2,892,719.62	\$	0.07957	\$ (0.07194)	-	0.00763	\$	0.00821
June '16	Aug '16		\$ 1,068,079.71	35,577,782	\$	2,942,962.19	\$	0.08272	\$ (0.07194)		0.01078	\$	0.01159
July '16	Sep '16	13,629,297	\$*    1,080,619.47	37,074,104	\$	3,125,599.91	\$	0.08431	T ( /	\$	0.01237	\$	0.01329
Aug '16	Oct '16		\$* <b>1,210,058.88</b>	41,426,378	\$	3,358,758.06	\$	0.08108	\$ (0.07194)	\$	0.00914	\$	0.00982
Sep '16	Nov '16	14,780,525	\$* 1,079,259.61	44,006,274	\$	3,369,937.96	\$	0.07658	\$ (0.07194)	\$	0.00464	\$	<u>0.00499</u>

BILLING SUMMARY AND CON	SUMPTION	for BILLIN		NOVEMB	ER 2016				
2016 - NOVEMBER BILLING WITH OCTOBER 2			G CTCLL -		<u>LN, 2010</u>				
PREVIOUS MONTH'S POWER BILLS - PI									
DATA PERIOD			MUNICIPAL PEAK	<u>.</u>					
AMP-Ohio Bill Month	SEPTEMBER, 201	30	30,996						
City-System Data Month	OCTOBER, 2016	31							
City-Monthly Billing Cycle	NOVEMBER, 2016			DIVET DOWED		DEAKING			
	======								
(		FREEMONT		MORGAN STNLY.	NORTHERN	JV-2		MELDAHL-HYDRC	
PURCHASED POWER-RESOURCES -> (	AMP CT	ENERGY	CHED. @ PJMC		POWER	PEAKING	CSW	SCHED. @	SCHED. @
(	SCHED. @ ATSI		REPLMT@ PJMC		POOL				GREENUP BUS
Delivered kWh (On Peak) ->		2,497,274	3,601,275	2,736,000	1,244,968		614,067	106,064	94,27
Delivered kWh (Off Peak) ->					378,212				
Delivered kWh (Replacement/Losses/Offset) ->									
Delivered kWh/Sale (Credits) ->					-729,356				
Net Total Delivered kWh as Billed ->	,	2,497,274		2,736,000	893,824	1,249	614,067	106,064	94,279
Percent % of Total Power Purchased->	0.6902%	18.4331%	26.5820%	20.1952%	6.5976%	0.0092%	4.5326%	0.7829%	0.6959%
COST OF PURCHASED POWER:									
DEMAND CHARGES (+Debits)									
Demand Charges	\$34,835.57	\$41,131.77	\$58,851.09			\$837.26	\$11,513.38	\$4,132.27	\$1,325.94
Debt Services (Principal & Interest)		\$44,279.65	\$99,491.04				\$137,780.07	\$15,418.59	\$4,557.3
DEMAND CHARGES (-Credits)									
Transmission Charges (Demand-Credits)	¢00.640.45					¢540.45			
	-\$29,649.45	-\$32.975.88	-\$14,555.97			-\$542.45 -\$1,487.38	-\$2,552.41	¢1.050.00	¢054.4
Capacity Credit	-\$62,412.87	-\$32,975.86	-\$14,000.97			-\$1,487.38	-\$2,352.41	-\$1,653.62	-\$854.47
Sub-Total Demand Charges	-\$57,226.75	\$52,435.54	\$143,786.16	\$0.00	\$0.00	-\$1,192.57	\$146,741.04	\$17,897.24	\$5,028.77
ENERGY CHARGES (+Debits):									
Energy Charges - (On Peak)	\$8,466.72	\$71,792.30	\$42,108.94	\$172,231.20	\$61,984.71	\$54.81	\$180.57	-\$72.73	\$105.37
Energy Charges - (Replacement/Off Peak)				. ,	\$10,353.74				
Net Congestion, Losses, FTR		\$5,757.53	\$8,952.74	\$1,355.75			\$1,641.49	\$188.21	\$112.1
Transmission Charges (Energy-Debits)		+-,	\$37,394.52	+ ,			+ ,,	•••••	•••••
ESPP Charges			\$07,00 HOL						
Bill Adjustments (General & Rate Levelization)		\$126.66	6			\$44.42	-\$1,228.13	-\$9,253.50	\$389.6
ENERGY CHARGES (-Credits or Adjustments):					<b>*•••••••••••••</b>				
Energy Charges - On Peak (Sale or Rate Stabilization	)				-\$20,254.01				
Net Congestion, Losses, FTR							<b>A-</b>		
Bill Adjustments (General & Rate Levelization)			\$6,790.81				-\$59,570.52	-\$212.13	-\$188.56
Sub-Total Energy Charges	\$8,466.72	\$77,676.49	\$95,247.01	\$173,586.95	\$52,084.44	\$99.23	-\$58,976.59	-\$9,350.15	\$418.65
TRANSMISSION & SERVICE CHARGES, MISC.	-								
RPM / PJM Charges Capacity - (+Debit)									
RPM / PJM Charges Capacity - (-Credit) Service Fees AMP-Dispatch Center - (+Debit/-Credit)									
Service Fees AMP-Dispatch Center - (+Debit/-Credit) Service Fees AMP-Part A - (+Debit/-Credit)									
Service Fees AMP-Part B - (+Debit/-Credit) Other Charges & Bill Adjustments - (+Debit/-Credit)									
Sub-Total Service Fees & Other Charges	\$0.00	\$0.00	\$0.00	 \$0.00	\$0.00	\$0.00	\$0.00	 \$0.00	\$0.00
TOTAL - ALL COSTS OF PURCHASED POWER	-\$48,760.03	\$130,112.03	\$239,033.17	\$173,586.95	\$52,084.44	-\$1,093.34	\$87,764.45	\$8,547.09	\$5,447.42
Purchased Power Resources - Cost per kWH->	-\$0.521481	\$0.052102	\$0.066375	\$0.063446	\$0.058271	-\$0.875372	\$0.142923	\$0.080584	\$0.05778
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BILLING SUMMARY AND CONS	<b>c</b>								
2016 - NOVEMBER BILLING WITH OCTOBER 2									
PREVIOUS MONTH'S POWER BILLS - P	<u>i</u>								
DATA PERIOD									
AMP-Ohio Bill Month									
City-System Data Month									
City-Monthly Billing Cycle									
	=======================================		====WIND====	===SOLAR===	===TRANSMISS	SION, SERVICE	FEES & MISC. CO	ONTRACTS===	
(	NYPA	JV-5	JV-6	AMP SOLAR	EFFNCY.SMART	TRANSMISSION	SERVICE FEES	MISCELLANEOUS	TOTAL -
PURCHASED POWER-RESOURCES -> (	HYDRO	HYDRO	WIND	PHASE 1	POWER PLANT	CHARGES	DISPATCH, A & B	CHARGES &	ALL
(	SCHED. @ NYIS	7x24 @ ATSI		SCHED. @ ATSI		Other Charges	Other Charges	LEVELIZATION	RESOURCES
 Delivered kWh (On Peak) ->		2,223,360	17.856	144,379		0	0	0	13,866,562
Delivered kWh (Off Peak) ->		_,,	,	,	-	-			378,212
Delivered kWh (Replacement/Losses/Offset) ->		32,354							32,354
Delivered kWh/Sale (Credits) ->		02,004							-729,356
									-125,550
Net Total Delivered kWh as Billed ->	492,288	2,255,714	17,856	144,379	0	0	0	0	13,547,772
Percent % of Total Power Purchased->	3.6337%	16.6501%	0.1318%	1.0657%		0.0000%	0.0000%	0.0000%	100.0000%
	5.0007 /0	. 5.666776	0.101070	1.000770	0.000070	0.000070		Verification Total - >	100.0000%
COST OF PURCHASED POWER:	+								
DEMAND CHARGES (+Debits)	+								
Demand Charges	\$6,505.86	\$35,332.94	\$1,576.48			\$106,861.13			\$302,903.69
Debt Services (Principal & Interest)	\$0,000.00	\$55,381.81	\$1,070110			\$100,001110			\$356,908.46
		φ00,001.01							φ000,000.40
DEMAND CHARGES (-Credits)									
		\$10.000 OF	-\$117.67						¢41 100 50
Transmission Charges (Demand-Credits)	¢4 410 C1	-\$10,889.95							-\$41,199.52
Capacity Credit	-\$4,412.61	-\$14,514.20	-\$106.71						-\$135,526.12
Sub-Total Demand Charges	\$2,093.25	\$65,310.60	\$1,352.10	\$0.00	\$0.00	\$106,861.13	\$0.00	\$0.00	\$483,086.51
ENERGY CHARGES (+Debits):									
Energy Charges - (On Peak)	\$9,019.78	\$55,210.55		\$12,272.22		\$6,816.94			\$440,171.38
Energy Charges - (Replacement/Off Peak)									\$10,353.74
Net Congestion, Losses, FTR	\$2,997.20								\$21,005.10
Transmission Charges (Energy-Debits)									\$37,394.52
ESPP Charges					\$17,863.18				\$17,863.18
Bill Adjustments (General & Rate Levelization)								\$0.00	-\$9,920.89
								+	+-,
ENERGY CHARGES (-Credits or Adjustments):									
Energy Charges - On Peak (Sale or Rate Stabilization									-\$20,254.01
Net Congestion, Losses, FTR	<del> </del>								\$0.00
Bill Adjustments (General & Rate Levelization)	-\$3,018.12								-\$56,198.52
	-03,010.12								-900,196.54
Sub-Total Energy Charges	\$8,998.86	\$55,210.55	\$0.00	\$12,272.22	\$17,863.18	\$6,816.94	\$0.00	\$0.00	\$440,414.50
		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18	\$6,816.94	\$0.00	\$0.00	\$440,414.50
Sub-Total Energy Charges TRANSMISSION & SERVICE CHARGES, MISC.:		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18			\$0.00	\$440,414.50
		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18	<b>\$6,816.94</b> \$144,234.85		\$0.00	
TRANSMISSION & SERVICE CHARGES, MISC.		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18			\$0.00	\$144,234.8
TRANSMISSION & SERVICE CHARGES, MISC.: RPM / PJM Charges Capacity - (+Debit)		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18			\$0.00	\$440,414.50 \$144,234.88 \$0.00 \$646.53
TRANSMISSION & SERVICE CHARGES, MISC RPM / PJM Charges Capacity - (+Debit) RPM / PJM Charges Capacity - (-Credit)		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18			\$0.00	\$144,234.8 \$0.0
TRANSMISSION & SERVICE CHARGES, MISC RPM / PJM Charges Capacity - (+Debit) RPM / PJM Charges Capacity - (-Credit) Service Fees AMP-Dispatch Center - (+Debit/-Credit)		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18		\$646.53	\$0.00	\$144,234.8 \$0.0 \$646.5 \$2,969.5
TRANSMISSION & SERVICE CHARGES, MISC RPM / PJM Charges Capacity - (+Debit) RPM / PJM Charges Capacity - (-Credit) Service Fees AMP-Dispatch Center - (+Debit/-Credit) Service Fees AMP-Part A - (+Debit/-Credit) Service Fees AMP-Part B - (+Debit/-Credit)		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18		\$646.53 \$2,969.55	\$0.00	\$144,234.8 \$0.0 \$646.5 \$2,969.5 \$7,907.6
TRANSMISSION & SERVICE CHARGES, MISC RPM / PJM Charges Capacity - (+Debit) RPM / PJM Charges Capacity - (-Credit) Service Fees AMP-Dispatch Center - (+Debit/-Credit) Service Fees AMP-Part A - (+Debit/-Credit) Service Fees AMP-Part B - (+Debit/-Credit)		\$55,210.55	\$0.00	\$12,272.22	\$17,863.18		\$646.53 \$2,969.55	\$0.00	\$144,234.8 \$0.0 \$646.5 \$2,969.5 \$7,907.6
TRANSMISSION & SERVICE CHARGES, MISC RPM / PJM Charges Capacity - (+Debit) RPM / PJM Charges Capacity - (-Credit) Service Fees AMP-Dispatch Center - (+Debit/-Credit) Service Fees AMP-Part A - (+Debit/-Credit)		\$55,210.55	\$0.00	\$12,272.22			\$646.53 \$2,969.55	\$0.00	\$144,234.8 \$0.0 \$646.5 \$2,969.5 \$7,907.6 \$0.0
TRANSMISSION & SERVICE CHARGES, MISC         RPM / PJM Charges Capacity - (+Debit)         RPM / PJM Charges Capacity - (-Credit)         Service Fees AMP-Dispatch Center - (+Debit/-Credit)         Service Fees AMP-Part A - (+Debit/-Credit)         Service Fees AMP-Part B - (+Debit/-Credit)         Other Charges & Bill Adjustments - (+Debit/-Credit)         Sub-Total Service Fees & Other Charges	<u></u> \$0.00		\$0.00	\$0.00	\$0.00	\$144,234.85	\$646.53 \$2,969.55 \$7,907.67 	\$0.00	\$144,234.8 \$0.0 \$646.5 \$2,969.5 \$7,907.6 \$0.0 \$155,758.6
TRANSMISSION & SERVICE CHARGES, MISC         RPM / PJM Charges Capacity - (+Debit)         RPM / PJM Charges Capacity - (-Credit)         Service Fees AMP-Dispatch Center - (+Debit/-Credit)         Service Fees AMP-Part A - (+Debit/-Credit)         Service Fees AMP-Part B - (+Debit/-Credit)         Other Charges & Bill Adjustments - (+Debit/-Credit)	\$0.00				\$0.00	\$144,234.85	\$646.53 \$2,969.55 \$7,907.67 \$11,523.75 \$11,523.75	\$0.00	\$144,234.8 \$0.0 \$646.5 \$2,969.5 \$7,907.6 \$0.0 \$155,758.66 \$1,079,259.6
TRANSMISSION & SERVICE CHARGES, MISC.         RPM / PJM Charges Capacity - (+Debit)         RPM / PJM Charges Capacity - (-Credit)         Service Fees AMP-Dispatch Center - (+Debit/-Credit)         Service Fees AMP-Part A - (+Debit/-Credit)         Service Fees AMP-Part B - (+Debit/-Credit)         Other Charges & Bill Adjustments - (+Debit/-Credit)         Sub-Total Service Fees & Other Charges         TOTAL - ALL COSTS OF PURCHASED POWER	\$0.00 \$11,092.11	\$0.00 \$120,521.15	\$0.00 \$1,352.10	\$0.00 \$12,272.22	\$0.00 \$17,863.18	\$144,234.85 	\$646.53 \$2,969.55 \$7,907.67 	\$0.00 \$0.00 Verification Total - >	\$144,234.8 \$0.00 \$646.5 \$2,969.5 \$7,907.6 \$0.00 \$155,758.60 \$1,079,259.6 \$1,079,259.6
TRANSMISSION & SERVICE CHARGES, MISC         RPM / PJM Charges Capacity - (+Debit)         RPM / PJM Charges Capacity - (-Credit)         Service Fees AMP-Dispatch Center - (+Debit/-Credit)         Service Fees AMP-Part A - (+Debit/-Credit)         Service Fees AMP-Part B - (+Debit/-Credit)         Other Charges & Bill Adjustments - (+Debit/-Credit)         Sub-Total Service Fees & Other Charges	\$0.00 \$11,092.11		\$0.00 \$1,352.10 \$0.075722	\$0.00 \$12,272.22 \$0.085000	\$0.00 \$17,863.18 \$0.000000	\$144,234.85 \$144,234.85 \$144,234.85 \$257,912.92 \$0.000000	\$646.53 \$2,969.55 \$7,907.67 	\$0.00 \$0.00 Verification Total - > \$0.00000	\$144,234.8 \$0.00 \$646.5 \$2,969.5 \$7,907.6 \$0.00 \$155,758.60 \$1,079,259.6 \$1,079,259.6 \$0.079665
TRANSMISSION & SERVICE CHARGES, MISC         RPM / PJM Charges Capacity - (+Debit)         RPM / PJM Charges Capacity - (-Credit)         Service Fees AMP-Dispatch Center - (+Debit/-Credit)         Service Fees AMP-Part A - (+Debit/-Credit)         Service Fees AMP-Part B - (+Debit/-Credit)         Other Charges & Bill Adjustments - (+Debit/-Credit)         Sub-Total Service Fees & Other Charges         TOTAL - ALL COSTS OF PURCHASED POWER	\$0.00 \$11,092.11	\$0.00 \$120,521.15	\$0.00 \$1,352.10 \$0.075722 (Northe	\$0.00 \$12,272.22 \$0.085000 ern Pool Power - C	\$0.00 \$17,863.18	\$144,234.85 \$144,234.85 \$144,234.85 \$257,912.92 \$0.000000 - Energy Charge/I	\$646.53 \$2,969.55 \$7,907.67 	\$0.00 \$0.00 Verification Total - > \$0.000000 c Service Rate - >	\$144,234.8: \$0.00 \$646.5: \$2,969.5: \$7,907.6 \$0.00 \$155,758.60 \$1,079,259.6 \$1,079,259.6



#### AMERICAN MUNICIPAL POWER, INC.

1111 Schrock Rd, Suite 100

COLUMBUS, OHIO 43229

PHONE: (614) 540-1111

FAX: (614) 540-1078

#### **City of Napoleon**

Gregory J. Heath, Finance Director 255 W. Riverview Ave., P.O. Box 151 Napoleon, Ohio 43545-0151

INVOICE NUMBER:	195051
INVOICE DATE:	10/13/2016
DUE DATE:	10/28/2016
TOTAL AMOUNT DUE:	\$930,876.15
CUSTOMER NUMBER:	5020
CUSTOMER P.O. #:	RG10046

PLEASE WRITE INVOICE NUMBER ON REMITTANCE. MAKE CHECK PAYABLE TO AMP

#### Northern Power Pool Billing - September, 2016

MUNICIPAL PEAK:	30,996 kW
TOTAL METERED ENERGY:	13,633,910 kWh

Total Power Charges:	\$661,439.48
Total Transmission Charges:	\$257,912.92
Total Other Charges:	\$11,523.75
Total Miscellaneous Charges:	\$0.00

## **GRAND TOTAL POWER INVOICE:**

## \$930,876.15

#### DETAIL INFORMATION OF POWER CHARGES September , 2016

	Napoleor	1		
FOR THE MONTH OF:	September, 2016		Total Metered Load kWh: Transmission Losses kWh: Distribution Losses kWh:	13,633,91 -86,13
			Total Energy Req. kWh:	13,547,77
TIME OF FENTS PEAK: TIME OF MUNICIPAL PEAK: TRANSMISSION PEAK:	09/07/2016 @ H.E. 16:00 09/07/2016 @ H.E. 15:00 July, 2015		COINCIDENT PEAK KW: MUNICIPAL PEAK KW: TRANSMISSION PEAK KW: D. WI CONDING DEMISSION PEAK KW:	30,52 30,99 30,30
			PJM Capacity Requirement kW:	29,71
apoleon Resources				
MP CT - Sched @ ATSI				
Demand Charge:	\$2.809320	/ kW *	12,400 kW =	\$34,835.5
Energy Charge:	\$0.090550	/ kWh *	93,503 kWh =	\$8,466.7
Transmission Credit: Capacity Credit:	\$2.391085 \$5.033296	/ kW * / kW *	-12,400 kW = -12,400 kW =	-\$29,649.4 -\$62,412.8
Subtotal	-\$0.521480	/ kWh *	93,503 kWh =	-\$48,760.0
emont - sched @ Fremont				
Demand Charge:	\$4.691658	/ kW *	8,767 kW =	\$41,131.7
Energy Charge: Net Congestion, Losses, FTR:	\$0.028748 \$0.002306	/ kWh * / kWh *	2,497,274 kWh =	\$71,792.3 \$5,757.5
Capacity Credit:	\$3.761364	/ kW *	-8,767 kW =	-\$32,975.8
Debt Service	\$5.050719	/ kW	8,767 kW	\$44,279.6
Adjustment for prior month:	A			\$126.6
Subtotal MP Hydro CSW - Sched @ PJMC	\$0.052102	/ kWh *	2,497,274 kWh =	\$130,112.0
Demand Charge:	\$5.186477	/ kW *	2,220 kW =	\$11,513.3
Energy Charge:	\$0.000294	/ kWh *	614,067 kWh =	\$180.5
Net Congestion, Losses, FTR:	\$0.002673	/ kWh *		\$1,641.4
Capacity Credit: Debt Service	\$1.149794	/ kW *	-2,220  kW =	-\$2,552.4
Board Approved Rate Levelization	\$62.066321	/ kW	2,220 kW	\$137,780.0 -\$59,570.5
REC Credit (Estimate)				-\$1,228.1
Subtotal	\$0.142923	/ kWh *	614,067 kWh =	\$87,764.4
eldahl Hydro - Sched @ Meldahl Bus Demand Charge:	\$8.198948	/ kW *	504 kW =	¢4 422 2
Energy Charge:	-\$0.000686	/ kWh *	106,064 kWh =	\$4,132.2 -\$72.7
Net Congestion, Losses, FTR:	\$0.001774	/ kWh *		\$188.2
Capacity Credit:	\$3.280992	/ kW *	-504 kW =	-\$1,653.6
Debt Service	\$30.592440	/ kW	504 kW	\$15,418.5
Board Approved Rate Levelization REC Credit (Estimate)				-\$9,253.5 -\$212.1
Subtotal	\$0.080584	/ kWh *	106,064 kWh =	\$8,547.0
/6 - Sched @ ATSI				
Demand Charge:			300 kW	
Energy Charge: Transmission Credit:	\$0.392233	/ kW *	17,856 kWh -300 kW =	-\$117.6
Capacity Credit:	\$0.355700	/ kW *	-300 kW =	-\$106.7
Subtotal	-\$0.012566	/ kWh *	17,856 kWh =	-\$224.3
reenup Hydro - Sched @ Greenup Bus	¢1.010000	(1) ( +	222 1111	¢4.005.0
Demand Charge: Energy Charge:	\$4.018000 \$0.001118	/ kW * / kWh *	330 kW = 94,279 kWh =	\$1,325.9 \$105.3
Net Congestion, Losses, FTR:	\$0.001118	/ kWh *	34,273 KWII -	\$105.3
Capacity Credit:	\$2.589303	/ kW *	-330 kW =	-\$854.4
Debt Service	\$13.810000	/ kW	330 kW	\$4,557.3
Board Approved Rate Levelization REC Credit (Estimate)				\$389.6
Subtotal	\$0.057780	/ kWh *	94,279 kWh =	-\$188.5 <b>\$5,447.4</b>
airie State - Sched @ PJMC	<b>*</b> 0.001100	,		<i>40,111</i>
Demand Charge:	\$11.826988	/ kW *	4,976 kW =	\$58,851.0
Energy Charge:	\$0.011693	/ kWh *	3,601,275 kWh =	\$42,108.9
Net Congestion, Losses, FTR: Capacity Credit:	\$0.002486 \$2.925235	/ kWh * / kW *	-4,976 kW =	\$8,952.7 \$14,555.9-
Debt Service	\$19.994180	/ kW	4,976 kW	\$99,491.0
Transmission from PSEC to PJM/MISO, including non-Prairie State				
variable charges/credits	\$0.010384	/ kWh	3,601,275 kWh	\$37,394.5
Board Approved Rate Levelization Subtotal	\$0.066375	/ kWh *	3,601,275 kWh =	\$6,790.8 <b>\$239,033.1</b>
YPA - Sched @ NYIS	÷:.000070		-,; <b></b>	<i>q_00,000.1</i>
Demand Charge:	\$7.056247	/ kW *	922 kW =	\$6,505.8
Energy Charge: Net Congestion, Losses, FTR:	\$0.018322	/ kWh *	492,288 kWh =	\$9,019.7 \$2,007.2
Capacity Credit:	\$0.006088 \$4.664493	/ kWh * / kW *	-946 kW =	\$2,997.2 -\$4,412.6
Adjustment for prior month:	᠂᠇᠐᠐᠇ᡩᡃᠣᢃ	,	-3+0 KW -	-\$4,412.0
Subtotal	\$0.022532	/ kWh *	492,288 kWh =	\$11,092.1
/5 - 7X24 @ ATSI				
Demand Charge: Energy Charge:			3,088 kW	
Energy Charge: Transmission Credit:	\$3.526538	/ kW *	2,223,360 kWh -3,088 kW =	-\$10,889.9
		/		
Capacity Credit:	\$4.700194	/ kW *	-3,088 kW =	-\$14,514.2

Energy Charge:

#### DETAIL INFORMATION OF POWER CHARGES September , 2016

Napoleon

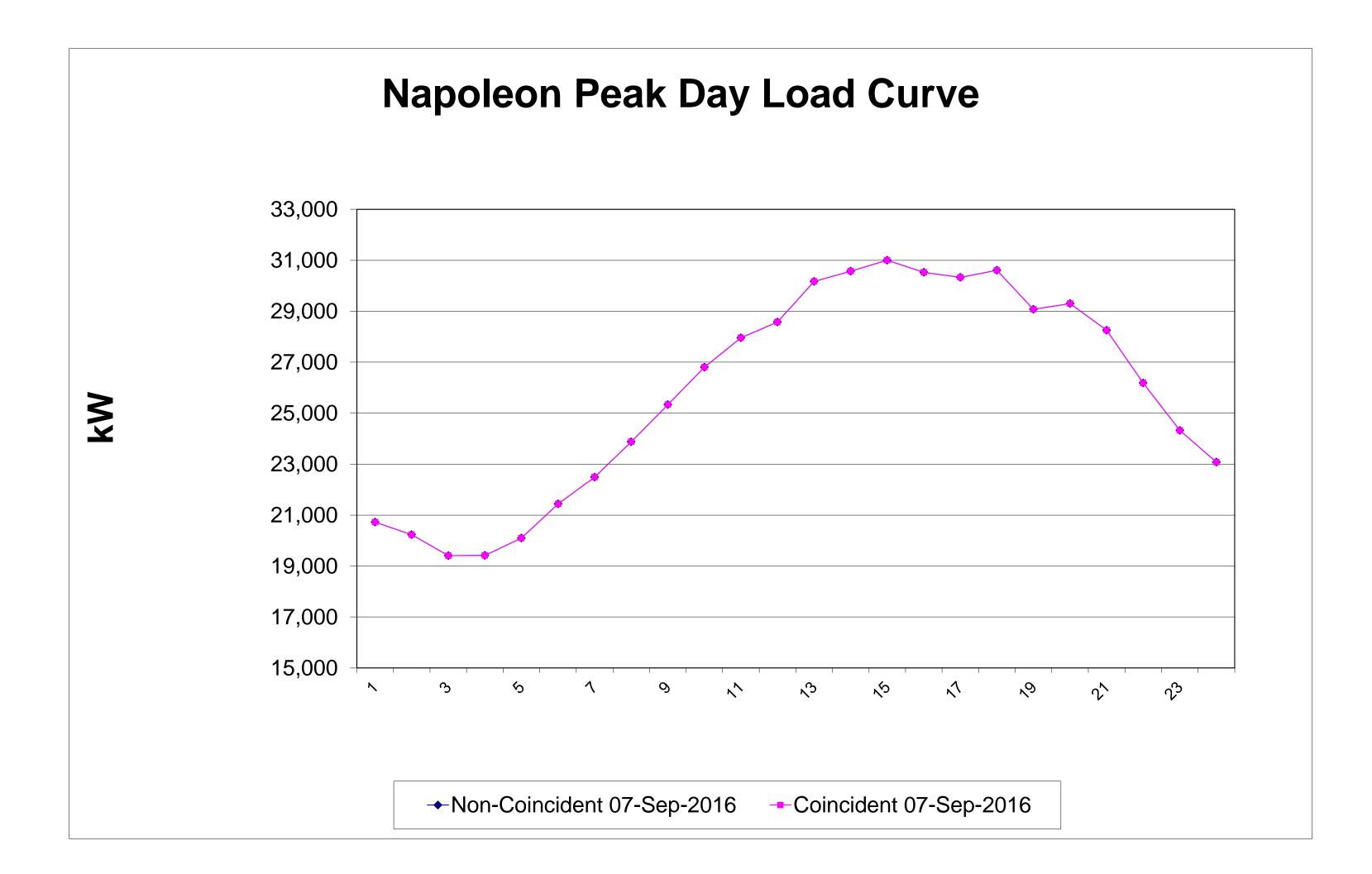
Transmission Credit:       \$2.05         Capacity Credit:       \$5.63         Subtotal       -\$1.58         AMP Solar Phase I - Sched @ ATSI       -\$1.58         Demand Charge:       \$0.08         Energy Charge:       \$0.08         Subtotal       \$0.08         Morgan Stanley 2015-2020 - 7x24 @ AD       \$0.08         Demand Charge:       \$0.00         Energy Charge:       \$0.00         Net Congestion, Losses, FTR:       \$0.00         Subtotal       \$0.00         Efficiency Smart Power Plant 2014-2017       \$0.06         ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12       \$ubtotal	43880 54735 34015 81172 85000 62950 00496 63446 #N/A	/ kWh * / kW * / kW * / kWh * / kWh * / kWh * / kWh * / kWh *	264 kW 1,249 kWh = -264 kW = -264 kW = <b>1,249 kWh =</b> 1,040 kW 144,379 kWh = <b>144,379 kWh =</b> <b>3,800 kW</b> 2,736,000 kWh = <b>2,736,000 kWh =</b>	\$1,355.75 <b>\$173,586.95</b> \$17,863.18
Energy Charge:         \$0.04           Transmission Credit:         \$2.05           Capacity Credit:         \$5.63           Subtotal         -\$1.58           AMP Solar Phase I - Sched @ ATSI	54735 34015 81172 85000 85000 62950 00496 63446	/ kW * / kW * / kWh * / kWh * / kWh * / kWh * / kWh *	1,249 kWh = -264 kW = -264 kW = 1,249 kWh = 1,040 kW 144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	-\$542.4 -\$1,487.3 -\$1,975.0 \$12,272.2 \$12,272.2 \$12,272.2 \$172,231.2 \$1,355.7 \$173,586.9 \$173,586.9
Transmission Credit:       \$2.05         Capacity Credit:       \$5.63         Subtotal         - \$1.56         MMP Solar Phase I - Sched @ ATSI         Demand Charge:       \$0.06         Energy Charge:       \$0.06         Subtotal         Morgan Stanley 2015-2020 - 7x24 @ AD         Demand Charge:       \$0.06         Energy Charge:       \$0.06         Net Congestion, Losses, FTR:       \$0.00         Subtotal       \$0.06         Efficiency Smart Power Plant 2014-2017       \$0.06         ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12       \$0.06         Subtotal         Northern Power Pool:       \$0.04         On Peak Energy Charge: (M-F HE 08-23 EDT)       \$0.04	54735 34015 81172 85000 85000 62950 00496 63446	/ kW * / kW * / kWh * / kWh * / kWh * / kWh * / kWh * / kWh *	-264 kW = -264 kW = 1,249 kWh = 1,040 kW 144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	-\$542.4 -\$1,487.3 -\$1,975.0 \$12,272.2 \$12,272.2 \$12,272.2 \$12,272.2 \$172,231.2 \$1,355.7 \$173,586.9 \$173,586.9
Capacity Credit:         \$5.63           Subtotal         -\$1.58           AMP Solar Phase I - Sched @ ATSI         Demand Charge:           Energy Charge:         \$0.08           Morgan Stanley 2015-2020 - 7x24 @ AD         \$0.08           Demand Charge:         \$0.06           Energy Charge:         \$0.06           Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.06           Efficiency Smart Power Plant 2014-2017         \$0.06           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$0.06           Northern Power Pool:         On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	34015 81172 85000 85000 62950 00496 63446	/ kW * / kWh * / kWh * / kWh * / kWh * / kWh * / kWh *	-264 kW = 1,249 kWh = 1,040 kW 144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	-\$1,487.33 -\$1,975.02 \$12,272.22 \$12,272.22 \$12,272.22 \$172,231.20 \$1,355.75 \$173,586.91 \$173,586.91
Subtotal         -\$1.58           AMP Solar Phase I - Sched @ ATSI	81172 85000 85000 62950 00496 63446	/ kWh * / kWh * / kWh * / kWh * / kWh * / kWh *	1,249 kWh = 1,040 kW 144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	-\$1,975.02 \$12,272.22 \$12,272.22 \$172,231.20 \$1,355.75 \$173,586.91 \$173,586.91 \$17,863.18
AMP Solar Phase I - Sched @ ATSI         0.00           Demand Charge:         \$0.00           Energy Charge:         \$0.00           Subtotal         \$0.00           Morgan Stanley 2015-2020 - 7x24 @ AD         \$0.00           Demand Charge:         \$0.00           Energy Charge:         \$0.00           Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.00           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$ubtotal           Northern Power Pool:         On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	85000 85000 62950 00496 63446	/ kWh * / kWh * / kWh * / kWh * / kWh *	1,040 kW 144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	\$12,272.22 \$12,272.22 \$172,231.2( \$1,355.73 \$173,586.99 \$17,863.18
Demand Charge:         \$0.08           Energy Charge:         \$0.08           Subtotal         \$0.08           Morgan Stanley 2015-2020 - 7x24 @ AD         Demand Charge:           Energy Charge:         \$0.06           Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.06           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         Subtotal           Northern Power Pool:         On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	85000 62950 00496 63446	/ kWh * / kWh * / kWh * / kWh *	144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	\$12,272.22 \$172,231.20 \$1,355.75 \$173,586.95 \$17,863.18
Energy Charge:         \$0.08           Subtotal         \$0.08           Morgan Stanley 2015-2020 - 7x24 @ AD         Demand Charge:           Demand Charge:         \$0.06           Energy Charge:         \$0.06           Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.06           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$ubtotal           Northern Power Pool:         On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	85000 62950 00496 63446	/ kWh * / kWh * / kWh * / kWh *	144,379 kWh = 144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	\$12,272.22 \$172,231.20 \$1,355.75 \$173,586.95 \$17,863.18
Subtotal         \$0.08           Morgan Stanley 2015-2020 - 7x24 @ AD         Demand Charge:         Energy Charge:         \$0.06           Energy Charge:         \$0.00         \$0.00         \$0.00           Net Congestion, Losses, FTR:         \$0.00         \$0.00           Subtotal         \$0.00         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.00           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$ubtotal           Northern Power Pool:         On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	85000 62950 00496 63446	/ kWh * / kWh * / kWh * / kWh *	144,379 kWh = 3,800 kW 2,736,000 kWh = 2,736,000 kWh =	\$12,272.22 \$172,231.20 \$1,355.75 \$173,586.95 \$17,863.18
Morgan Stanley 2015-2020 - 7x24 @ AD         0.000           Demand Charge:         \$0.000           Energy Charge:         \$0.000           Net Congestion, Losses, FTR:         \$0.000           Subtotal         \$0.000           Efficiency Smart Power Plant 2014-2017         \$0.000           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         Subtotal           Northern Power Pool:         On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	62950 00496 <b>63446</b>	/ kWh * / kWh * <b>/ kWh</b> *	3,800 kW 2,736,000 kWh = 2,736,000 kWh =	\$172,231.20 \$1,355.75 <b>\$173,586.95</b> \$17,863.18
Demand Charge:         \$0.06           Energy Charge:         \$0.06           Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.06           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$0.06           Subtotal         \$0.06           Northern Power Pool:         \$0.06           On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	00496 63446	/ kWh * / kWh *	2,736,000 kWh =	\$1,355.75 <b>\$173,586.95</b> \$17,863.18
Energy Charge:         \$0.06           Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.06           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$0.06           Subtotal         \$0.06           Northern Power Pool:         \$0.06           On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	00496 63446	/ kWh * / kWh *	2,736,000 kWh =	\$1,355.75 <b>\$173,586.95</b> \$17,863.18
Net Congestion, Losses, FTR:         \$0.00           Subtotal         \$0.00           Efficiency Smart Power Plant 2014-2017         \$0.00           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$0.00           Subtotal         \$0.00           Northern Power Pool:         \$0.00           On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	00496 63446	/ kWh * / kWh *	2,736,000 kWh =	\$172,231.20 \$1,355.75 <b>\$173,586.95</b> \$17,863.18
Subtotal         \$0.06           Efficiency Smart Power Plant 2014-2017         \$0.06           ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12         \$0.04           Subtotal         \$0.06           Northern Power Pool:         \$0.04           On Peak Energy Charge: (M-F HE 08-23 EDT)         \$0.04	63446	/ kWh *		<b>\$173,586.95</b> \$17,863.18
Efficiency Smart Power Plant 2014-2017 ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12 Subtotal Northern Power Pool: On Peak Energy Charge: (M-F HE 08-23 EDT) \$0.04		-		\$17,863.18
ESPP 2014-2017 obligation @ \$1.400 /MWh x 153,113. MWh / 12 Subtotal  Northern Power Pool: On Peak Energy Charge: (M-F HE 08-23 EDT) \$0.04	#N/A	/ kWh *	0 kWh =	
Subtotal Northern Power Pool: On Peak Energy Charge: (M-F HE 08-23 EDT) \$0.04	#N/A	/ kWh *	0 kWh =	
Northern Power Pool: On Peak Energy Charge: (M-F HE 08-23 EDT) \$0.04	#N/A	/ kWh *	0 kWh =	¢47 000 40
On Peak Energy Charge: (M-F HE 08-23 EDT) \$0.04				\$17,863.18
On Peak Energy Charge: (M-F HE 08-23 EDT) \$0.04				
Off Peak Energy Charge: \$0.02		/ kWh *	1,244,968 kWh =	\$61,984.71
		/ kWh *	378,212 kWh =	\$10,353.74
	27770	/ kWh *	-729,355 kWh =	-\$20,254.01
	58271	/ kWh *	893,825 kWh =	\$52,084.44
Total Demand Charges:				\$283,096.89
Total Energy Charges:				\$378,342.59
Total Power Charges:			13,547,772 kWh	\$661,439.48
TRANSMISSION CHARGES:				
	26537	/ kW *	30.302 kW =	\$106.861.13
5 · · · · · ·	00602	/ kWh *	11.324.412 kWh =	\$6.816.94
	54300	/ kW *	29,713 kW =	\$144,234.85
	22775	/ kWh *	11,324,412 kWh =	\$257,912.92
			, ,	
	00047	/ kWh *	13,633,910 kWh =	\$646.53
Service Fee Part A,				
Based on Annual Municipal Sales \$0.00	00229	/ kWh *	155,609,698 kWh 1/12 =	\$2,969.55
Service Fee Part B.				
Energy Purchases \$0.00	00580	/kWh *	13,633,910 kWh =	\$7,907.67
TOTAL OTHER CHARGES:				\$11,523.75

**GRAND TOTAL POWER INVOICE:** 

\$930,876.15

Napoleon	Capacity Plan - Actual										
Sep 2016	ACTU	JAL DEMAND =	30.996	MW							
Days 30		JAL ENERGY =		MWH							
			10,001		DEMAND	ENERGY				EFFECTIVE	%
		DEMAND	ENERGY	LOAD	RATE	RATE	DEMAND	ENERGY	TOTAL	RATE	OF
	SOURCE	MW	MWH	FACTOR	\$/KW	\$/MWH	CHARGE	CHARGE	CHARGES	\$/MWH	DOLLARS
	(1)	(2)	(4)	(5)	(6)	(7)	(9)	(10)	(11)	(12)	(13)
1	NPP Pool Purchases	0.00	1,623	0%	\$0.00	\$44.57	\$0	\$72,338	\$72,338	\$44.57	6.7%
2	NPP Pool Sales	0.00	-729	0%	\$0.00	\$27.77	\$0	-\$20,254	-\$20,254	\$27.77	-1.9%
3	AFEC	8.77	2,497	40%	\$6.00	\$31.05	\$52,562	\$77,550	\$130,112	\$52.10	12.1%
4	Prairie State	4.98	3,601	101%	\$30.26	\$24.56	\$150,577	\$88,456	\$239,033	\$66.37	22.2%
5	NYPA - Ohio	0.92	492	74%	-\$1.00	\$24.41	-\$925	\$12,017	\$11,092	\$22.53	1.0%
6	JV5	3.09	2,223	100%	\$21.15	\$24.83	\$65,311	\$55,211	\$120,521	\$54.21	11.2%
/	JV5 Losses	0.00	32	0%	\$0.00	\$0.00	\$0 \$05.040	\$0	\$0	\$0.00	0.0%
8 9	AMP-Hydro Meldahl	2.22 0.50	614 106	38% 29%	\$38.71 \$16.73	\$2.97 \$1.09	\$85,942 \$8,432	\$1,822 \$115	\$87,764 \$8,547	\$142.92 \$80.58	8.2% 0.8%
9 10	Greenup	0.33	94	29% 40%	\$15.85	\$1.09 \$2.31	\$0,432 \$5,230	\$115 \$218	\$0,547 \$5,447	\$60.56 \$57.78	0.8%
11	JV6	0.30	94 18	40 % 8%	\$15.85 \$4.51	\$2.31 \$0.00	\$5,230 \$1,352	\$0	\$3,447 \$1,352	\$75.72	0.5%
12	AMP Solar Phase I	1.04	144	19%	\$0.00	\$85.00	\$0	\$12,272	\$12,272	\$85.00	1.1%
13	Morgan Stanley 2015-2020 7x24	3.80	2,736	100%	\$0.00	\$63.45	\$0	\$173,587	\$173,587	\$63.45	16.1%
14	AMPCT	12.40	94	1%	-\$4.62	\$90.55	-\$57,227	\$8,467	-\$48,760	-\$521.48	-4.5%
15	JV2	0.26	1	1%	-\$4.35	\$43.88	-\$1,148	\$55	-\$1,093	-\$875.31	-0.1%
	POWER TOTAL	38.61	13,548	49%			\$310,106	\$481,854	\$791,960	\$58.46	73.6%
16	Energy Efficiency	-	0		\$0.00	\$0.00	\$0	\$17,863	\$17,863	\$0.00	1.7%
17	Installed Capacity	29.71			\$4.85		\$144,235	\$0	\$144,235	\$10.58	13.4%
18	TRANSMISSION	30.30	11,324		\$3.53	\$0.60	\$106,861	\$6,817	\$113,678	\$8.34	10.6%
19	Distribution Charge	31.00			\$0.00	\$0.00	\$0	\$0	\$0	\$0.00	0.0%
20	Service Fee B		13,634	-		\$0.58		\$7,908	\$7,908	\$0.58	0.7%
21	Dispatch Charge		13,634			\$0.05		\$647	\$647	\$0.05	0.1%
	OTHER TOTAL						\$251,096	\$33,234	\$284,330	\$20.85	26.4%
GRAND TOTAL PURCHASED			13,548				\$561,202	\$515,088	\$1,076,290		
Delivered to members		30.996	13,634	61%			\$561,202	\$515,088	\$1,076,290	\$78.94	100.0%
		DEMAND	ENERGY	L.F.					TOTAL \$	\$/MWh	Avg Temp
	2016 Forecast	30.31	12,985	59%					\$1,138,474	\$87.68	64.1
	2015 Actual	30.81	14,322	65%					\$1,017,327	\$71.03	67.7
	2014 Actual	30.41	13,026	59%					\$904,157	\$69.41	62.4 67.5
									Actual Temp		67.5

NAPOLEON T	•	Friday S	•	•	•	•	Wednesday	Thursday F	•	•	Sunday N	•	•	Vednesday	Thursday	
Date	9/1/2016	9/2/2016	9/3/2016	9/4/2016	9/5/2016	9/6/2016	9/7/2016	9/8/2016	9/9/2016	9/10/2016	9/11/2016	9/12/2016	9/13/2016	9/14/2016	9/15/2016	
Hour	17 150	16 109	12 702	12,753	12,466	16 400	20 721	21 021	10 105	17 171	12 704	14 702	15 711	16.004	15,880	
100 200	17,152 16,614	16,108 15,836	13,702 13,333	12,755	12,400	16,490 15,936	20,721 20,231	21,831 21,179	18,485 18,208	17,171 16,813	13,794 13,426	14,702 14,591	15,711 15,592	16,994 16,639	15,677	
300	16,181	15,557	13,355	12,359	11,714	15,668	19,407	20,828	17,677	16,676	13,420	14,391	15,187	16,240	15,348	
400	16,286	15,693	13,139	12,110	11,657	15,000	19,407	20,828	17,696	16,466	13,001	14,434	15,388	16,661	15,554	
400 500	17,044	16,143	13,148	12,133	11,826	16,750	20,096	21,528	18,381	16,889	13,001	14,019	16,026	17,395	16,070	
500 600	18,159	17,492	13,223	12,234		18,602				17,360	13,487	16,797	17,220	18,813	17,425	
700					12,013		21,441	23,216	19,480							
	18,859	18,163	13,378	12,130	11,759	20,309	22,489	24,252	20,675	17,802	13,431	17,919	18,312	20,017	18,523	
800	20,181	19,202	14,221	12,861	12,518	21,798	23,878	24,711	21,564	18,955	14,054	18,517	19,097	20,698	19,100	
900 1000	20,917 21,392	19,819 20,279	15,168 15,782	13,697 14,623	13,779 14,752	23,246 25,028	25,330 26,802	24,911	22,399 23,684	19,739 19,648	14,743 15,363	19,144 19,695	19,906 20,495	20,725	19,493 20,047	
1100				-				25,358						20,837		
	21,588	20,476	16,458	15,242	15,903	26,531	27,960	25,497	24,266	20,325	15,603	20,308	20,945	20,702	20,379	
1200	21,727	20,783	16,566	15,866	16,861	28,076	28,576	25,780	24,899	20,979	16,235	20,799	21,542	21,114	20,875	
1300	22,088	21,156	16,860	16,371	18,170	28,875	30,172	25,815	25,351	20,594	16,165	20,768	21,932	21,011	21,180	
1400	21,599	20,989	17,016	16,761	18,867	29,408	30,568	24,877	26,183	20,071	16,393	21,082	21,916	20,934	21,125	
1500	21,623	20,815	17,307	17,343	20,389	29,591	30,996	25,372	26,557	19,248	16,819	21,140	22,409	20,724	21,166	
1600	21,825	20,610	17,499	17,701	21,170	30,122	30,522	26,536	26,834	18,440	17,113	21,621	22,848	20,657	21,373	
1700	20,945	20,070	17,457	17,973	21,851	29,824	30,326	25,238	26,068	18,281	17,690	21,549	22,535	20,071	20,640	
1800	20,666	19,491	17,172	17,961	21,798	29,153	30,611	24,665	25,093	18,205	17,345	21,558	22,358	19,737	20,435	
1900	19,902	18,724	16,572	17,245	21,547	28,296	29,079	24,208	24,127	17,386	17,347	20,891	21,872	19,363	19,841	
2000	20,651	18,757	16,860	17,157	21,627	28,257	29,297	24,616	24,405	17,912	17,717	21,167	22,479	20,149	20,636	
2100	20,338	18,330	16,588	16,700	20,837	26,777	28,255	23,637	23,333	17,360	17,060	20,017	21,404	19,703	19,796	
2200	18,818	17,398	15,388	15,484	19,347	24,757	26,188	22,051	21,946	16,182	16,035	18,367	19,617	18,269	18,330	
2300	17,635	15,731	14,065	13,986	18,026	23,050	24,326	20,747	20,094	15,079	15,642	17,182	18,566	17,117	17,199	
	40.0		12 270	13,097	17,401	21,894	23,081	19,594	18,224	14,291	14,953	16,351	17,851	16,480	16,332	
2400	16,857	14,217	13,270	10,007	,											
	16,857 469,047	14,217 441,839	367,613	356,253	380,931	574,149	619,773	567,453	535,629	431,872	369,688	448,620	471,208	461,050	452,424	
2400 Total	469,047	441,839	367,613	356,253	380,931											Saturday
2400 Total Date	469,047	441,839	367,613	356,253	380,931											Saturday 10/1/2
2400 Total Date Hour	469,047 riday \$ 9/16/2016	441,839 Saturday \$ 9/17/2016	367,613 Sunday N 9/18/2016	356,253 Monday 9/19/2016	380,931 Tuesday \ 9/20/2016	Wednesday 9/21/2016	Thursday 9/22/2016	Friday S 9/23/2016	Saturday 5 9/24/2016	Sunday M 9/25/2016	fonday 7 9/26/2016	Tuesday 9/27/2016	Wednesday 9/28/2016	Thursday 9/29/2016	Friday 5 9/30/2016	
2400 Fotal Date Hour 100	469,047 riday 5 9/16/2016 15,819	441,839 Saturday 5 9/17/2016 15,866	367,613 Sunday M 9/18/2016 14,943	356,253 Monday 9/19/2016 15,891	380,931 Tuesday \ 9/20/2016 16,738	Wednesday 9/21/2016 17,613	Thursday 9/22/2016 17,935	Friday S 9/23/2016 17,933	Saturday S 9/24/2016 15,381	Sunday M 9/25/2016 13,061	Nonday 7 9/26/2016 14,744	Tuesday 9/27/2016 14,817	Wednesday 7 9/28/2016 14,715	Thursday 9/29/2016 14,841	Friday S 9/30/2016 15,031	-
2400 Fotal Date Hour 100 200	469,047 riday 5 9/16/2016 15,819 15,677	441,839 Saturday 5 9/17/2016 15,866 15,385	367,613 Sunday M 9/18/2016 14,943 14,601	356,253 Monday 9/19/2016 15,891 15,623	380,931 Tuesday y 9/20/2016 16,738 16,284	Wednesday 9/21/2016 17,613 16,953	Thursday 9/22/2016 17,935 17,339	Friday S 9/23/2016 17,933 17,620	Saturday 5 9/24/2016 15,381 14,918	Sunday M 9/25/2016 13,061 12,774	Nonday 7 9/26/2016 14,744 14,572	Tuesday 9/27/2016 14,817 14,509	Wednesday 9/28/2016 14,715 14,577	Thursday 9/29/2016 14,841 14,733	Friday 5 9/30/2016 15,031 14,836	-
2400 Fotal Date Hour 100 200 300	469,047 riday 5 9/16/2016 15,819 15,677 15,224	441,839 Saturday 5 9/17/2016 15,866 15,385 15,027	367,613 Sunday N 9/18/2016 14,943 14,601 14,254	356,253 Monday 9/19/2016 15,891 15,623 15,280	380,931 Tuesday y 9/20/2016 16,738 16,284 15,731	Wednesday 9/21/2016 17,613 16,953 16,602	Thursday 9/22/2016 17,935 17,339 16,938	Friday S 9/23/2016 17,933 17,620 17,114	Saturday 5 9/24/2016 15,381 14,918 14,441	Sunday M 9/25/2016 13,061 12,774 12,542	/onday 7 9/26/2016 14,744 14,572 14,569	Tuesday 9/27/2016 14,817 14,509 14,470	Wednesday 9/28/2016 14,715 14,577 14,452	Thursday 9/29/2016 14,841 14,733 14,440	Friday 5 9/30/2016 15,031 14,836 14,569	-
2400 Fotal Date Hour 100 200 300 400	469,047 riday 5 9/16/2016 15,819 15,677 15,224 15,433	441,839 Saturday 5 9/17/2016 15,866 15,385 15,027 15,209	367,613 Sunday M 9/18/2016 14,943 14,601 14,254 14,146	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381	380,931 Tuesday V 9/20/2016 16,738 16,284 15,731 16,031	Wednesday 9/21/2016 17,613 16,953 16,602 16,801	Thursday 9/22/2016 17,935 17,339 16,938 16,769	Friday S 9/23/2016 17,933 17,620 17,114 17,164	Saturday 9/24/2016 9/24/2016 15,381 14,918 14,441 14,228	Sunday M 9/25/2016 13,061 12,774 12,542 12,461	Aonday 7 9/26/2016 14,744 14,572 14,569 15,174	Tuesday 9/27/2016 14,817 14,509 14,470 14,680	Wednesday 9/28/2016 14,715 14,577 14,452 14,618	Thursday 9/29/2016 14,841 14,733 14,440 14,716	Friday 5 9/30/2016 15,031 14,836 14,569 14,937	
2400 Total Date Hour 100 200 300 400 500	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930	441,839 Saturday 5 9/17/2016 15,866 15,385 15,027 15,209 15,759	367,613 Sunday M 9/18/2016 14,943 14,601 14,254 14,146 14,217	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713	Friday 9/23/2016 9/23/2016 17,933 17,620 17,114 17,164 17,718	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448	Sunday M 9/25/2016 13,061 12,774 12,542 12,461 12,467	Nonday 7 9/26/2016 14,744 14,572 14,569 15,174 16,165	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593	Saturday 10/1/2
2400 Fotal Date Hour 100 200 300 400 500 600	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133	367,613 Sunday M 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990	Friday 9/23/2016 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,448 14,938	Sunday M 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657	
2400 Fotal Date Hour 100 200 300 400 500 600 700	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729	367,613 Sunday M 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696	Sunday M 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377	
2400 Total Date Hour 100 200 300 400 500 600 700 800	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025	Sunday N 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694	
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555	Sunday N 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144	
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495	Friday 9/23/2016 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,078 22,962	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038	Sunday M 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372	
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000 1100	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,809	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061	Sunday M 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317	
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000 1100 1200	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,504 14,927 15,860 16,754 17,672 18,458	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371	Sunday N 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127	-
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,359 24,784	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 16,555 17,038 17,061 17,371 17,433	Sunday N 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978	-
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000 1000 1100 1200 1300 1400	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,038 17,061 17,371 17,433 17,544	Sunday N 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777	-
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000 1000 1100 1200 1300 1400 1500	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384	
2400 Total Date Hour 100 200 300 400 500 600 700 800 900 1000 1000 1100 1200 1300 1400 1500 1600	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796 17,855	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512	
2400 Total Date Hour 100 200 300 400 500 600 700 800 900 1000 1000 1000 1100 1200 1300 1400 1500 1600 1700	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796 17,855 18,055	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,756 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,425	-
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 10	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075 21,473	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,897 18,598 18,112 17,796 17,855 18,055 18,055 18,133	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,858 24,312	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150 22,635	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586 18,514	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486	Friday 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,978 18,777 18,384 17,512 17,545	-
2400 Total Date Hour 100 200 300 400 500 600 700 800 900 10	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075 21,473 21,181	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796 17,855 18,055 18,133 17,886	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,858 24,312 23,904	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150 22,635 22,015	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,355 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586 18,514 18,678	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594	Friday 9/30/2016 15,031 14,836 14,836 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,545 17,767	
2400 fotal bate lour 100 200 300 400 500 600 700 800 900 1000 1000 1000 1000 1000 1000	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075 21,473 21,181 21,723	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796 17,855 18,055 18,133 17,886 18,421	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927 20,266	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076 22,977	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889 24,127	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847 24,888	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,312 23,904 24,350	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150 22,635 22,015 22,015 22,100	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793 17,169	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678 18,019	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367 18,752	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294 18,804	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586 18,514 18,678 18,592	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594 18,751	Friday 9/30/2016 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,545 17,545 17,767 17,745	
2400 fotal lour lour 100 200 300 400 500 600 700 800 900 1000 1000 1000 1000 1000 1000	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075 21,473 21,181 21,723 20,940	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,897 18,598 18,112 17,796 17,855 18,055 18,055 18,133 17,886 18,421 18,063	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927 20,266 19,177	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076 22,977 21,727	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889 24,127 22,675	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847 24,888 23,395	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,312 23,904 24,350 23,085	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150 22,635 22,015 22,015 22,100 21,245	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793 17,169 16,390	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678 18,019 17,111	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367 18,752 17,938	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294 18,804 17,837	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586 18,514 18,678 18,592 17,700	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594 18,751 17,904	Friday 9/30/2016 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,425 17,545 17,767 17,745 17,361	-
2400 Total Date Jour Jour 100 200 300 400 500 600 700 800 900 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 200 2	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075 21,473 21,181 21,723 20,940 19,848	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,897 18,598 18,112 17,796 17,855 18,055 18,133 17,886 18,421 18,063 17,258	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927 20,266 19,177 17,873	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,756 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076 22,977 21,727 19,965	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889 24,127 22,675 20,676	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847 24,888 23,395 21,426	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,312 23,904 24,350 23,085 21,340	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,046 23,150 22,635 22,015 22,015 22,100 21,245 20,284	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793 17,169 16,390 15,582	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678 18,019 17,111 16,053	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367 18,752 17,938 16,888	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294 18,804 17,837 16,582	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586 18,514 18,678 18,592 17,700 16,581	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594 18,751 17,904 16,683	Friday 9/30/2016 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,545 17,767 17,745 17,361 16,205	
2400 Total Date Jour 100 200 300 400 500 600 700 800 900 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 200 2	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,075 21,473 21,181 22,075 21,473 21,181 22,075 21,473 21,181 22,075	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796 17,855 18,055 18,055 18,133 17,886 18,421 18,063 17,258 16,367	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927 20,266 19,177 17,873 16,863	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076 22,977 21,727 19,965 18,569	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889 24,127 22,675 20,676 19,283	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847 24,888 23,395 21,426 20,046	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,312 23,904 24,350 23,085 21,340 19,689	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150 22,635 22,015 22,015 22,015 22,100 21,245 20,284 18,226	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793 17,169 16,390 15,582 14,645	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678 18,019 17,111 16,053 15,355	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,355 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367 18,752 17,938 16,888 16,007	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294 18,804 17,837 16,582 15,649	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,845 18,845 18,845 18,586 17,977 18,440 18,586 18,514 18,514 18,678 18,592 17,700 16,581 15,728	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594 18,751 17,904 16,683 16,021	Friday 9/30/2016 15,031 14,836 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,545 17,545 17,767 17,745 17,361 16,205 14,747	
2400 Total Date lour 100 200 300 400 500 600 700 800 900 1000 1000 1100 1200 1300 1400 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,131 22,614 22,075 21,473 21,181 21,723 20,940 19,848	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,897 18,598 18,112 17,796 17,855 18,055 18,133 17,886 18,421 18,063 17,258	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927 20,266 19,177 17,873	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,756 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076 22,977 21,727 19,965	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889 24,127 22,675 20,676	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847 24,888 23,395 21,426	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,312 23,904 24,350 23,085 21,340	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,046 23,150 22,635 22,015 22,015 22,100 21,245 20,284	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793 17,169 16,390 15,582	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678 18,019 17,111 16,053	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367 18,752 17,938 16,888	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294 18,804 17,837 16,582	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,888 18,724 18,586 17,977 18,440 18,586 18,514 18,678 18,592 17,700 16,581	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594 18,751 17,904 16,683	Friday 9/30/2016 9/30/2016 15,031 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,545 17,767 17,745 17,361 16,205	-
2400 Fotal Date Hour 100 200 300 400 500 600 700 800 900 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 200 2	469,047 riday 9/16/2016 15,819 15,677 15,224 15,433 15,930 17,176 18,195 18,941 19,387 20,086 20,430 21,150 21,876 21,984 22,075 21,473 21,181 22,075 21,473 21,181 22,075 21,473 21,181 22,075	441,839 Saturday 9/17/2016 15,866 15,385 15,027 15,209 15,759 16,133 16,729 17,461 18,146 18,808 18,899 18,897 18,598 18,112 17,796 17,855 18,055 18,055 18,133 17,886 18,421 18,063 17,258 16,367	367,613 Sunday 9/18/2016 14,943 14,601 14,254 14,146 14,217 14,456 14,504 14,927 15,860 16,754 17,672 18,458 19,137 19,555 19,922 20,061 20,247 20,024 19,927 20,266 19,177 17,873 16,863	356,253 Monday 9/19/2016 15,891 15,623 15,280 15,381 16,206 17,598 18,870 19,526 20,075 20,766 21,655 22,292 22,954 23,471 23,901 24,285 24,273 23,763 23,076 22,977 21,727 19,965 18,569	380,931 Tuesday 9/20/2016 16,738 16,284 15,731 16,031 16,775 18,376 19,429 20,067 20,890 21,643 22,662 23,292 24,096 24,717 25,034 25,202 24,894 24,366 23,889 24,127 22,675 20,676 19,283	Wednesday 9/21/2016 17,613 16,953 16,602 16,801 17,542 18,972 20,189 20,572 21,456 22,260 22,851 23,641 24,646 25,399 25,614 26,193 25,851 25,569 24,847 24,888 23,395 21,426 20,046	Thursday 9/22/2016 17,935 17,339 16,938 16,769 17,713 18,990 19,978 20,805 21,706 22,495 23,112 24,131 24,729 25,162 25,255 25,543 24,858 24,312 23,904 24,350 23,085 21,340 19,689	Friday 9/23/2016 17,933 17,620 17,114 17,164 17,718 18,956 20,209 21,185 22,078 22,962 23,585 24,359 24,784 24,592 23,871 24,046 23,150 22,635 22,015 22,015 22,015 22,100 21,245 20,284 18,226	Saturday 9/24/2016 15,381 14,918 14,441 14,228 14,448 14,938 15,696 16,025 16,555 17,038 17,061 17,371 17,433 17,544 17,478 17,633 17,246 17,006 16,793 17,169 16,390 15,582 14,645	Sunday 9/25/2016 13,061 12,774 12,542 12,461 12,467 12,747 13,147 13,560 14,222 14,676 15,245 15,670 15,986 16,469 16,864 17,697 17,826 17,725 17,678 18,019 17,111 16,053 15,355	Aonday 9/26/2016 14,744 14,572 14,569 15,174 16,165 17,608 19,355 19,355 19,355 19,522 19,816 19,914 20,067 19,890 19,672 19,565 19,452 19,214 18,614 18,536 18,367 18,752 17,938 16,888 16,007	Tuesday 9/27/2016 14,817 14,509 14,470 14,680 15,374 16,595 17,892 18,178 18,412 18,937 19,049 19,226 19,093 18,870 18,275 18,231 17,914 17,976 18,294 18,804 17,837 16,582 15,649	Wednesday 9/28/2016 14,715 14,577 14,452 14,618 15,552 16,700 18,178 18,671 18,618 18,751 18,845 18,845 18,845 18,845 18,586 17,977 18,440 18,586 18,514 18,514 18,678 18,592 17,700 16,581 15,728	Thursday 9/29/2016 14,841 14,733 14,440 14,716 15,560 16,675 17,881 18,229 18,396 18,490 18,650 19,284 19,076 18,445 18,039 18,072 18,481 18,486 18,594 18,751 17,904 16,683 16,021	Friday 9/30/2016 15,031 14,836 14,836 14,569 14,937 15,593 16,657 18,377 18,694 19,144 19,372 19,317 19,127 18,978 18,777 18,384 17,512 17,545 17,545 17,767 17,745 17,361 16,205 14,747	-





Omega Joint Venture Two	INVOICE NUMBER:	194869
1111 Schrock Rd, Suite 100	INVOICE DATE:	10/7/2016
COLUMBUS, OHIO 43229	DUE DATE:	10/17/2016
PHONE: (614) 540-1111	TOTAL AMOUNT DUE:	\$881.68
FAX: (614) 540-1078	CUSTOMER NUMBER:	5020
	CUSTOMER P.O. #:	
City of Napoleon Gregory J. Heath, Finance Director	PLEASE WRITE INVOICE NUMBER ON	

Ci G 255 W. Riverview Ave., P.O. Box 151 Napoleon, Ohio 43545-0151

REMITTANCE AND RETURN YELLOW INVOICE COPY. MAKE CHECK PAYABLE TO OMEGA JV 2

**OMEGA JV2 POWER INVOICE -**September, 2016

FIXED RATE CHARGE:	264	kW '	r	\$3.17	/ kW =		\$837.26
ENERGY CHARGE:	0	kWh	*	\$0.000000	/kWh =		\$0.00
SERVICE FEES:	0	kWh	*	\$0.000000	/kWh =		\$0.00
Fuel Costs that were not recovered through En	ergy Sales to Ma	rket				=	\$44.42

# **TOTAL CHARGES**

OMEGA JV5	INVOICE NUMBER:	194949
OHIO MUNICIPAL ELECTRIC GENERATING ASSOCIATION	INVOICE DATE:	10/3/2016
1111 Schrock Rd, Suite 100	DUE DATE:	10/13/2016
Columbus, Ohio  43229 Phone: (614) 540-1111 Fax: (614) 540-1078	TOTAL AMOUNT DUE:	\$90,543.49
	CUSTOMER NUMBER:	5020
<b>City of Napoleon</b> Gregory J. Heath, Finance Director	CUSTOMER P.O. NUMBER:	BL980397
255 W. Riverview Ave., P.O. Box 151 Napoleon, Ohio 43545-0151	MAKE CHECKS PAYABLE TO:	OMEGA JV5

PLEASE WRITE INVOICE NUMBER ON REMITTANCE AND RETURN YELLOW INVOICE COPY.

#### FOR THE MONTH/YEAR OF: September, 2016

DEMAND CHARGES:

Base Financing Demand Charge: (Invoiced seperately as of 1/1/07)

Base Operating Expense Demand Charge: Seca Associated with JV5.	\$11.442014 \$0.000000	/ kW * / kW *	3,088 kW = 3,088 kW =	\$35,332.94 \$0.00
TOTAL DEMAND CHARGES:	\$11.442014	/ kW *	3,088 kW =	\$35,332.94
ENERGY CHARGES: JV5 Repl. Pwr. & Variable (Budgeted Rate): JV5 Fuel Cost (Actual Expense):	\$0.024832 \$0.000000	/ kWh * / kWh *	2,223,360 kWh = 2,223,360 kWh =	\$55,210.55 \$0.00
TOTAL ENERGY CHARGES:	\$0.024832	/ kWh *	2,223,360 kWh =	\$55,210.55

SUB-TOTAL

\$90,543.49

# Total OMEGA JV5 Invoice:

#### \$90,543.49

OME		INVOICE NUMBER:	194991
OHIO MUNICIPAL GENERATING ASS	ELECTRIC	INVOICE DATE:	10/3/2016
1111 Schrock Rd	•	DUE DATE:	10/13/2016
Columbus, Ohio Phone: (614) 540 Fax: (614) 540-1	-1111	TOTAL AMOUNT DUE:	\$55,381.81
		CUSTOMER NUMBER:	5020
	City of Napoleon Gregory J. Heath, Finance Director	CUSTOMER P.O. NUMBER:	BL980397
	255 W. Riverview Ave., P.O. Box 151 Napoleon, Ohio 43545-0151	MAKE CHECKS PAYABLE TO:	OMEGA JV5
		PLEASE WRITE INVOICE NUMBER ON REMITTANCE AND RETURN YELLOW INVOICE COPY.	
Debt Service -	· OMEGA JV5		
FOR THE MONT	H/YEAR OF: October, 2016		

Financing CHARGES: Debt Service

\$17.934524

/ kW \*

3,088 kW =

\$55,381.81



#### AMERICAN MUNICIPAL POWER, INC.

1111 Schrock Rd, Suite 100 COLUMBUS, OHIO 43229 PHONE: (614) 540-1111 FAX: (614) 540-1078

INVOICE NUMBER:	195009
INVOICE DATE:	10/4/2016
DUE DATE:	10/18/2016
TOTAL AMOUNT DUE:	\$1,576.48
CUSTOMER NUMBER:	5020

CUSTOMER P.O. #:

#### **City of Napoleon**

Gregory J. Heath, Finance Director 255 W. Riverview Ave., P.O. Box 151 Napoleon, OH 43545-0151

PLEASE WRITE INVOICE NUMBER ON REMITTANCE AND RETURN YELLOW INVOICE COPY. MAKE CHECK PAYABLE TO AMP, INC.

#### Omega JV6

Project Capacity: 300 kW

Year 2016

Electric Fixed

300 kW \* 5.25 per kW-Month

September, 2016 -

Electric Fixed

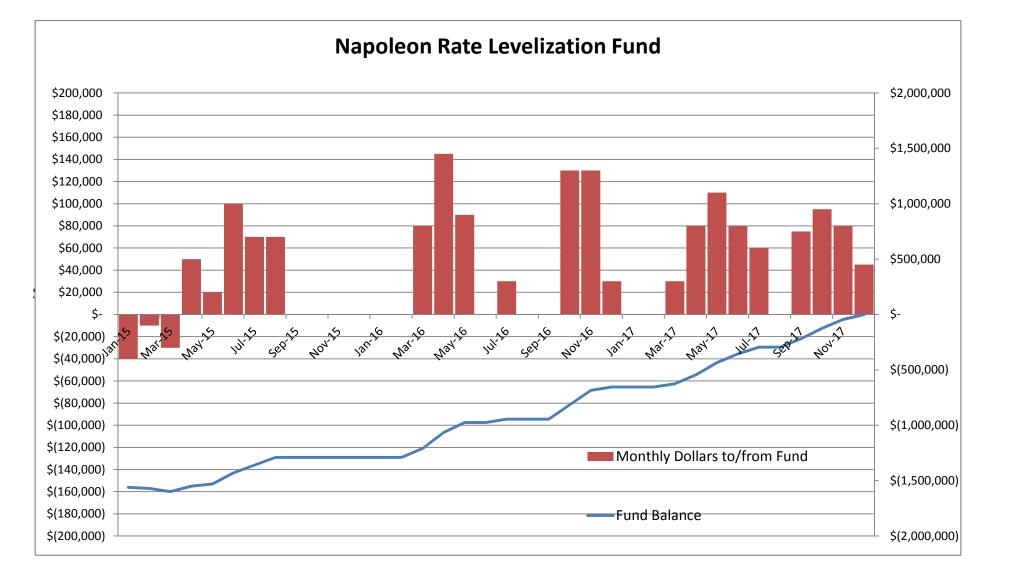
AMOUNT DUE FOR :

**TOTAL CHARGES** 

# \$1,576.48

Total

\$1,576.48



# CITY OF NAPOLEON RATE LEVELIZATION FUND ${\bf LOAN\ SCHEDULE}$

Estimated Annual Interest Rate:

0.00%

	<u>Pa</u>	ayment from	Monthly In	taract		
Month (1)	Mi	<u>AMP to</u> micipality (2)	Monthly In Credit		Accun	nulated Loan Balance
Jan-14	\$	(190,000.00)	\$	-	\$	(190,000.00)
Feb-14	\$	(120,000.00)	\$	_	\$	(310,000.00)
Mar-14	\$	(120,000.00)	\$	-	\$	(430,000.00)
Apr-14	\$	(90,000.00)	\$	_	\$	(520,000.00)
May-14	\$	(120,000.00)	\$	_	\$	(640,000.00)
Jun-14	\$	(120,000.00)	\$	-	\$	(760,000.00)
Jul-14	\$	(120,000.00)	\$	-	\$	(940,000.00)
Aug-14	\$	(150,000.00)	\$	-	\$	(1,090,000.00)
Sep-14	\$	(100,000.00) (100,000.00)	\$	-	\$	(1,190,000.00)
Oct-14	\$	(100,000.00)	\$	-	\$	(1,290,000.00)
Nov-14	\$	(100,000.00) (100,000.00)	\$	_	\$	(1,390,000.00)
Dec-14	\$	(130,000.00)	\$	_	\$	(1,520,000.00)
Jan-15	\$	(40,000.00)	\$	_	\$	(1,560,000.00)
Feb-15	\$	(10,000.00)	\$	-	\$	(1,570,000.00)
Mar-15	\$	(30,000.00)	\$	_	\$	(1,600,000.00)
Apr-15	\$	50,000.00	\$	-	\$	(1,550,000.00)
May-15	\$	20,000.00	\$	-	\$ \$	(1,530,000.00)
Jun-15	\$	100,000.00	\$	_	\$	(1,430,000.00)
Jul-15	\$	70,000.00	\$	-	\$ \$	(1,360,000.00)
	\$	70,000.00	\$	-	\$ \$	(1,290,000.00)
Aug-15 Sep-15	ֆ \$	70,000.00	\$	-	\$ \$	(1,290,000.00) (1,290,000.00)
Oct-15	ֆ \$	-	\$	-		
	ֆ \$	-			\$ ¢	(1,290,000.00) (1,290,000.00)
Nov-15 Dec-15	э \$	-	\$ \$	-	\$ ¢	,
	э \$			-	\$ ¢	(1,290,000.00)
Jan-16	э \$	50,000.00	\$	-	\$ ¢	(1,240,000.00)
Feb-16		80,000.00	\$		\$ ¢	(1,160,000.00)
Mar-16	\$ \$	80,000.00	\$	-	\$ ¢	(1,080,000.00)
Apr-16		145,000.00	\$	-	\$ ¢	(935,000.00)
May-16	\$	145,000.00	\$	-	\$ ¢	(790,000.00)
Jun-16	\$	80,000.00	\$	-	\$	(710,000.00)
Jul-16	\$	30,000.00	\$	-	\$	(680,000.00)
Aug-16	\$	30,000.00	\$	-	\$	(650,000.00)
Sep-16	\$	130,000.00	\$	-	\$	(520,000.00)
Oct-16	\$	130,000.00	\$	-	\$	(390,000.00)
Nov-16	\$	130,000.00	\$	-	\$	(260,000.00)
Dec-16	\$	30,000.00	\$	-	\$	(230,000.00)
Jan-17			\$	-	\$	(230,000.00)
Feb-17			\$	-	\$	(230,000.00)
Mar-17	<b></b>	(0.000.00	\$	-	\$	(230,000.00)
Apr-17	\$	60,000.00	\$	-	\$	(170,000.00)
May-17	\$	60,000.00	\$	-	\$	(110,000.00)
Jun-17	\$	60,000.00	\$	-	\$	(50,000.00)
Jul-17			\$	-	\$	(50,000.00)
Aug-17	٨	50 000 05	\$	-	\$	(50,000.00)
Sep-17	\$	50,000.00	\$	-	\$	-
Oct-17			\$	-	\$	-
Nov-17			\$	-	\$	-
Dec-17	(1)	Month means m	\$	- r daliwa	\$	-

(1) Month means month of power delivery.

(2) Negative means payment from Municipality to AMP

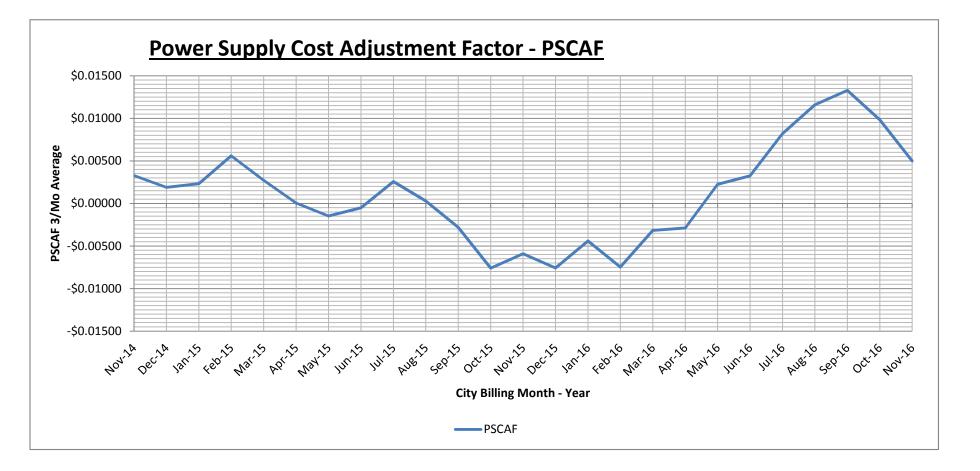
September 2017 payment is estimated. Actual payment will include final loan true-up payment needed to fully repay Municipality.

BILLING SUMMARY AND	0000			OTOLL	110112		.010							
NOVEMBER, 2016														
2016 - NOVEMBER BILLING WITH OCTOBE	R 2016 DAT	A BILLING UNITS												
	Oct-1	<b>j</b>				Cost / kWH	Nov-15				Dec-15			
Class and/or Ra		Oct-16	Oct-16	Billed kVa	Cost / kWH		# of	Nov-15	Nov-15	Cost / kWH	# of	Dec-15	Dec-15	Cost / kWH
Schedule Co			Billed	of Demand				(kWh Usage)	Billed	For Month	Bills	(kWh Usage)	Billed	For Month
Residential (Dom-In) E			\$358,640.04	0	\$0.1151		3,344		\$204,893.24	\$0.1030	3,356	1,798,371	\$184,274.36	\$0.102
Residential (Dom-In) w/Ecosmart E Residential (Dom-In - All Electric) E		9 6,928 8 469,940	\$806.87 \$54,713.23	0	\$0.1165 \$0.1164		10 611		\$496.63	\$0.1057	10 608	4,126	\$436.57	\$0.105 \$0.100
Res.(Dom-In - All Elec.) w/Ecosmart		1 844	\$97.71	0	\$0.1162		1	781	\$35,380.27 \$78.58	\$0.1037 \$0.1006	000	377,629 616	\$38,115.47 \$62.21	\$0.100
ries.(Domini - Air Liec.) w/Ecosmart			ψ97.71		\$0.115C	\$0.1104			φ/0.50	\$0.1000			ψυΖ.ΖΤ	\$0.1010
Total Residential (Domestic)	3,94	2 3,594,528	\$414,257.85	0	\$0.1152	2 \$0.1097	3,966	2,335,363	\$240,848.72	\$0.1031	3,975	2,180,742	\$222,888.61	\$0.1022
Residential (Rural-Out) E			\$107,817.96	0	\$0.1219		754		\$66,098.28	\$0.1102	758	639,997	\$69,004.14	\$0.1078
Residential (Rural-Out) w/Ecosmart EF		4 3,185	\$401.26	0	\$0.1260		4		\$252.82	\$0.1161	4	2,380	\$268.56	\$0.1128
Residential (Rural-Out - All Electric) El Res. (Rural-Out - All Electric) w/Ecosmar EF			\$56,756.10	0	\$0.1215 \$0.1250		386		\$37,798.14	\$0.1087 \$0.1122	387	392,331	\$41,522.79	\$0.1058 \$0.1081
		2 1,724 6 19,261	\$215.45 \$2,341.81	188	\$0.1250		2 15		\$153.67 \$1,972.49	\$0.1122	2 15		\$178.64 \$5,333.52	\$0.108
Residential (Rural-Out - All Electric w/Dm El		9 9,576	\$1,175.26	64			9		\$1,044.46		9		\$2,837.96	\$0.0989
Total Residential (Rural)	1,17	2 1,384,991	\$168,707.84	252	\$0.1218	3 \$0.1144	1,170	979,287	\$107,319.86	\$0.1096	1,175	1,119,264	\$119,145.61	\$0.1064
Commercial (1 Ph-In - No Dmd) E		52,027	\$7,461.56	14	\$0.1434		74		\$5,835.07	\$0.1305	74		\$5,915.34	\$0.1282
Commercial (1 Ph-Out - No Dmd) EC	20 4	5 8,002	\$1,552.94	0	\$0.1941	\$0.1857	43		\$1,218.01	\$0.1924	43	10,729	\$1,686.33	\$0.1572
Total Commercial (1 Ph) No Dmd	1		\$9,014.50		\$0.1502	2 \$0.1434	117		\$7,053.08	\$0.1382	117		\$7,601.67	\$0.1337
			÷0,01.100		201.001	,		0.,001	÷.,000.00			55,577	÷.,cc01	2000
Commercial (1 Ph-In - w/Demand) E	21 25	460,502	\$62,668.02	2126	\$0.1361	\$0.1326	255	350,282	\$44,482.88	\$0.1270	255	279,725	\$37,007.69	\$0.1323
Commercial (1 Ph-Out - w/Demand) EC		5 38,742	\$5,266.86	169	\$0.1359		24	29,420	\$3,757.18	\$0.1277	24	25,782	\$3,300.75	\$0.1280
					-									
Total Commercial (1 Ph) w/Demand	28	3 499,244	\$67,934.88	2,295	\$0.1361	\$0.1325	279	379,702	\$48,240.06	\$0.1270	279	305,507	\$40,308.44	\$0.1319
Commercial (3 Ph-Out - No Dmd) EC	10	2 40	\$41.06	6	\$1.0265	5 \$0.1362	2	80	\$44.86	\$0.5608	2	40	\$40.37	\$1.0093
Commercial (3 Pri-Out - No Dilid) EC	+0	2 40	\$41.00	0	\$1.0205	φ0.1362	2	00	\$44.00	\$0.5606	2	40	\$40.37	\$1.0093
Total Commercial (3 Ph) No Dmd		2 40	\$41.06	6	\$1.0265	5 \$0.1362	2	80	\$44.86	\$0.5608	2	40	\$40.37	\$1.0093
Commercial (3 Ph-In - w/Demand) E	3 20	2 1,914,635	\$238,552.14	6448	\$0.1246	6 \$0.1178	208	1,707,544	\$189,181.38	\$0.1108	206	1,511,932	\$165,693.78	\$0.1096
Commercial (3 Ph-Out - w/Demand) EC		415,582	\$51,509.04	1486	\$0.1239		39		\$44,312.51	\$0.1116	39	556,051	\$58,181.67	\$0.1046
Commercial (3 Ph-In - w/Dmd.&Sub-St.C EC		0 0	\$0.00	0	\$0.0000		2		\$20,524.88	\$0.1007	0	0	\$0.00	\$0.000
Commercial (3 Ph-Out - w/Dmd.&Sub-St. E3		3 142,840	\$16,789.77	508 23	\$0.1175		3		\$10,157.73	\$0.1133	3		\$13,741.63	\$0.1016
Commercial (3 Ph-In - w/Demand, No Ta EC		1 6,240	\$771.43	23	\$0.1236	\$0.1214		4,280	\$461.32	\$0.1078	1	2,400	\$284.95	\$0.1187
Total Commercial (3 Ph) w/Demand	24		\$307,622.38	8,465	\$0.124	\$0.1171	253	2,402,325		\$0.1102	249		\$237,902.03	\$0.1079
Large Power (In - w/Dmd & Rct) E		2,685,366	\$284,900.17	6727	\$0.1061		21		\$229,516.76	\$0.0853	21		\$220,257.42	\$0.0818
Large Power (In - w/Dmd & Rct, w/SbCr) E		3 1,006,242	\$96,026.30	2061	\$0.0954		1		\$65,588.24	\$0.0746	3	1,099,839	\$82,880.55	\$0.0754
Large Power (Out - w/Dmd & Rct, w/SbC EL Large Power (In - w/Dmd & Rct, w/SbCr) E		1 474,000 2 75,674	\$45,851.97 \$13,439.88	966 499	\$0.0967 \$0.1776		1		\$27,818.14 \$6,047.70	\$0.0906 \$0.0772	1	332,400 79,597	\$28,057.68 \$5,934.15	\$0.0844 \$0.0746
Large Power (In - w/Dmd & Rct, w/SbCr) E	.5	2 75,074	\$13,435.00	493	φ0.1770	φ0.1321	2	10,231	\$0,047.70	\$0.0772	<u> </u>	79,397	φ0,90 <del>4</del> .10	\$0.0740
Total Large Power	2	4,241,282	\$440,218.32	10,253	\$0.1038	\$0.0926	25	3,954,187	\$328,970.84	\$0.0832	27	4,205,732	\$337,129.80	\$0.0802
Industrial (In - w/Dmd & Rct, w/SbCr) E		1 1,140,292	\$99,897.30	2023	\$0.0876		1	1,127,275	\$81,054.43	\$0.0719	1	1,206,433	\$83,318.08	\$0.0691
Industrial (In - w/Dmd & Rct, No/SbCr) E	2	1 1,004,383	\$87,514.48	1732	\$0.0871	\$0.0792	1	1,158,099	\$83,221.66	\$0.0719	1	1,128,579	\$79,886.73	\$0.0708
Tetel Inductorial										#0 0 <b>7</b>				
Total Industrial		2 2,144,675	\$187,411.78	3,755	\$0.0874	\$0.0799	2	2,285,374	\$164,276.09	\$0.0719	2	2,335,012	\$163,204.81	\$0.0699
Interdepartmental (In - No Dmd)	01	8 42,268	\$5,155.27	168	\$0.1220	\$0.1088	8	32,267	\$3,472.77	\$0.1076	Q	34,464	\$3,802.92	\$0.1103
Interdepartmental (Out - No Dmd) ED		0 0	\$0.00	100	\$0.1220		0		\$0.00	\$0.0000	0	04,404	\$0.00	\$0.0000
Interdepartmental (Out - w/Dmd) ED	20	2 785	\$123.43	0	\$0.1572		2	743	\$106.42	\$0.1432	2		\$59.81	\$0.1829
Interdepartmental (In - w/Dmd) E		25,226	\$3,515.77	0	\$0.1394		27	25,670	\$3,168.51	\$0.1234	29	36,570	\$4,336.96	\$0.1186
Interdepartmental (3Ph-In - w/Dmd) E		1 214,907	\$25,016.23	701			11		\$16,726.53	\$0.1038	11	214,542	\$21,414.53	\$0.0998
Interdepartmental (Street Lights) ED		7 62,879	\$5,851.14	0	\$0.0931		7		\$5,849.08	\$0.0930	7	62,879	\$5,862.30	\$0.0932
Interdepartmental (Traffic Signals) ED Generators (JV2 Power Cost Only) G.		9 1,783 1 16,181	\$164.85 \$1,059.37	26	\$0.0925		14		\$168.31 \$621.37	\$0.0925 \$0.0358	15	1,974 17,671	\$182.51 \$662.84	\$0.0925 \$0.0375
Generators (JV5 Power Cost Only) G.		1 12,410	\$812.48	18	\$0.0655		1		\$408.63	\$0.0358	1	12,297	\$461.26	\$0.0375
						20.0000			÷					20.0070
Total Interdepartmental	(	6 376,439	\$41,698.54	913	\$0.1108	\$0.1010	71	313,226	\$30,521.62	\$0.0974	74	380,724	\$36,783.13	\$0.0966
SUB-TOTAL CONSUMPTION & DEMAND	5,85		\$1,636,907.15	,	\$0.1107	7 \$0.1018	5,885			\$0.0938	5,900		\$1,165,004.47	\$0.0911
											I			
Street Lights (In) SI	0	6 0	\$13.74		\$0.000	\$0.2333	14	0	\$13.43	\$0.0000	15	0	\$13.59	\$0.000
		2 0	\$13.74		\$0.0000		14		\$13.43	\$0.0000	15	0	\$13.59	\$0.0000
			φ0.77		φυ.υυυι	φυ.υυυυ	2	0	φ0.77	ψ0.0000	2		φ0.77	φ0.0000
Total Street Light Only		8 0	\$14.51	0	\$0.000	\$0.2396	16		\$14.20	\$0.0000	17		\$14.36	\$0.000
					-									
TOTAL CONSUMPTION & DEMAND	5,87	5 14,780,525	\$1,636,921.66	25,953	\$0.1107	7 \$0.1018	5,901	12.700.595	\$1,191,927.15	\$0.0938	5,917	12.789.555	\$1,165,018.83	\$0.0911

ELECTRIC								G DETERMINAN	ITS							DET	ERMINANTS
BILLING SUMMARY AN	ID CO	1															
NOVEMBER, 2016																	
2016 - NOVEMBER BILLING WITH OCT	OBER 20																
	Data	Jan-16	1	1	0	Feb-16	5.1.40	5.1.40	0	Mar-16			0	Apr-16	1	1	0
Class and/or Schedule	Rate Code	# of Bills	Jan-16 (kWh Usage)	Jan-16 Billed	Cost / kWH For Month	# of Bills	Feb-16 (kWh Usage)	Feb-16 Billed	Cost / kWH For Month	# of Bills	Mar-16 (kWh Usage)	Mar-16 Billed	Cost / kWH For Month	# of Bills	Apr-16 (kWh Usage)	Apr-16 Billed	Cost / kWH For Month
Residential (Dom-In)	E1	3,336	1,861,416	\$195,822.68	\$0.1052	3,343	2,336,473	\$233,564.23	\$0.1000	3,345	2,347,687	\$244,491.10	\$0.1041	3,345	2,115,617	\$223,079.18	\$0.1054
Residential (Dom-In) w/Ecosmart	E1E	10	4,037	\$441.29	\$0.1093	9	4,542	\$469.07	\$0.1033	9	4,327	\$468.00	\$0.1082	9	3,918	\$429.97	\$0.1097
Residential (Dom-In - All Electric)	E2	603	469,722	\$47,982.01	\$0.1021	605		\$63,527.74	\$0.0969	608	756,980	\$76,046.71	\$0.1005	608		\$64,884.51	\$0.1016
Res.(Dom-In - All Elec.) w/Ecosmart	E2E	1	481	\$51.43	\$0.1069	1	545	\$55.80	\$0.1024	1	597	\$63.13	\$0.1057	1	596	\$63.19	\$0.1060
Total Residential (Domestic)		3,950	2,335,656	\$244,297.41	\$0.1046	3,958	2,997,176	\$297,616.84	\$0.0993	3,963	3,109,591	\$321,068.94	\$0.1033	3,963	2,758,446	\$288,456.85	\$0.1046
Residential (Rural-Out)	ER1	756	692,545	\$76,216.42	\$0.1101	757		\$94,694.90	\$0.1044	759	875,454	\$95,412.70	\$0.1090	756		\$86,047.23	\$0.1103
Residential (Rural-Out) w/Ecosmart	ER1E	4	2,902	\$327.89	\$0.1130	4	3,834	\$408.52	\$0.1066	4	3,230	\$364.37	\$0.1128	4	2,546	\$296.42	\$0.1164
Residential (Rural-Out - All Electric) Res. (Rural-Out - All Electric) w/Ecosmar	ER2 ER2E	383 2	425,593 2,005	\$46,020.44 \$218.79	\$0.1081 \$0.1091	383 2	551,963 2,918	\$56,838.04 \$300.36	\$0.1030 \$0.1029	384 2	587,960 2,960	\$62,814.15 \$317.12		384		\$54,947.15 \$283.32	\$0.1082 \$0.1083
Residential (Rural-Out w/Dmd)	ER3	16	98,686	\$9,894.24	\$0.1003	16		\$2,651.52	\$0.1023	16		\$3,181.29		16		\$2,948.93	\$0.1063
Residential (Rural-Out - All Electric w/Dm		9		\$1,455.82	\$0.1056	9		\$1,051.19	\$0.1051	9		\$1,222.89		9		\$1,096.12	\$0.1097
Total Residential (Rural)		1,170	1,235,523	\$134,133.60		1,171	1,501,865	\$155,944.53	\$0.1038	1,174	1,511,051	\$163,312.52		1,171		\$145,619.17	\$0.1094
Commercial (1 Ph-In - No Dmd)	EC2	74	43,794	\$5,800.34	\$0.1324	74		\$6,581.79	\$0.1261	75	53,648	\$6,982.89	\$0.1302	75		\$6,871.47	\$0.1308
Commercial (1 Ph-Out - No Dmd)	EC2O	43	8,154	\$1,432.14	\$0.1756	43	8,018	\$1,392.38	\$0.1737	43	8,383	\$1,468.25	\$0.1751	43	8,714	\$1,508.23	\$0.1731
Total Commercial (1 Ph) No Dmd		117	51,948	\$7,232.48	\$0.1392	117	60,223	\$7,974.17	\$0.1324	118	62,031	\$8,451.14	\$0.1362	118		\$8,379.70	\$0.1368
Commercial (1 Ph-In - w/Demand)	EC1	255	275,088	\$36,491.09	\$0.1327	256	306,848	\$38,364.05	\$0.1250	255	337,026	\$42,741.72	\$0.1268	255		\$39,283.01	\$0.1306
Commercial (1 Ph-Out - w/Demand)	EC10	24	30,192	\$3,885.43	\$0.1287	24	36,267	\$4,391.42	\$0.1211	24	41,186	\$4,956.90	\$0.1204	24	36,470	\$4,539.18	\$0.1245
Total Commercial (1 Ph) w/Demand		279	305,280	\$40,376.52	\$0.1323	280	343,115	\$42,755.47	\$0.1246	279	378,212	\$47,698.62	\$0.1261	279	337,251	\$43,822.19	\$0.1299
Commercial (3 Ph-Out - No Dmd)	EC4O	2	15,040	\$1,719.24	\$0.1143	2	400	\$79.67	\$0.1992	2	1,000	\$149.48	\$0.1495	2	880	\$136.11	\$0.1547
Total Commercial (3 Ph) No Dmd		2	15,040	\$1,719.24	\$0.1143	2	400	\$79.67	\$0.1992	2	1,000	\$149.48	\$0.1495	2	880	\$136.11	\$0.1547
Commercial (3 Ph-In - w/Demand)	EC3	205	1,414,090	\$158,505.09	\$0.1121	205	1,396,306	\$152.228.19	\$0.1090	204	1,492,235	\$165,735.10	\$0.1111	201	1,330,300	\$150,670.14	\$0.1133
Commercial (3 Ph-Out - w/Demand)	EC3O	39	438,660	\$48,468.19	\$0.1121	39		\$38,994.81	\$0.1097	39	379,416	\$42,543.57	\$0.1121	39		\$38.541.02	\$0.1145
Commercial (3 Ph-In - w/Dmd.&Sub-St.C	EC3S	0	0	\$0.00	\$0.0000	0		\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0		\$0.00	\$0.0000
Commercial (3 Ph-Out - w/Dmd.&Sub-St	E3SO	3	137,480	\$14,239.58	\$0.1036	3	137,920	\$14,016.49	\$0.1016	3	149,800	\$15,798.47	\$0.1055	3	131,080	\$13,890.07	\$0.1060
Commercial (3 Ph-In - w/Demand, No Ta	EC3T	1	1,840	\$211.56	\$0.1150	1	1,920	\$212.10	\$0.1105	1	2,160	\$242.85	\$0.1124	1	2,120	\$240.01	\$0.1132
Total Commercial (3 Ph) w/Demand		248	1,992,070	\$221,424.42	\$0.1112	248	1,891,774	\$205,451.59	\$0.1086	247	2,023,611	\$224,319.99	\$0.1109	244	1,800,043	\$203,341.24	\$0.1130
Large Power (In - w/Dmd & Rct)	EL1	21	2,403,640	\$211,797.66	\$0.0881	21	2,310,925	\$199,175.25	\$0.0862	21	2,561,160	\$221,085.42	\$0.0863	21	2,385,374	\$216,220.16	\$0.0906
Large Power (In - w/Dmd & Rct, w/SbCr)	EL2	3		\$79,375.27	\$0.0798	3	1,009,639	\$77,760.04	\$0.0770	3	1,042,283	\$84,501.97	\$0.0811	3		\$67,444.50	\$0.0836
Large Power (Out - w/Dmd & Rct, w/SbC	EL2O	1	295,200	\$26,076.76	\$0.0883	1	246,000	\$21,470.29	\$0.0873	1	322,800	\$28,467.29	\$0.0882	1		\$30,419.43	\$0.0899
Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	2	70,607	\$7,256.69	\$0.1028	2	85,654	\$6,264.07	\$0.0731	2	85,512	\$6,619.24	\$0.0774	2	72,927	\$6,016.76	\$0.0825
Total Large Power		27	3,763,919	\$324,506.38	\$0.0862	27	3,652,218	\$304,669.65	\$0.0834	27	4,011,755	\$340,673.92	\$0.0849	27	3,603,907	\$320,100.85	\$0.0888
Industrial (In - w/Dmd & Rct, w/SbCr)	EI1	1	1,156,158	\$87,758.35	\$0.0759	1	957,122	\$74,102.43	\$0.0774	1	1,194,711	\$89,279.02	\$0.0747	1	1,035,693	\$80,055.22	\$0.0773
Industrial (In - w/Dmd & Rct, No/SbCr)	El2	1	1,023,505	\$77,586.44	\$0.0758	1	896,274	\$67,913.52	\$0.0758	1	1,122,083	\$81,701.62	\$0.0728	1	1,052,644	\$78,469.13	\$0.0745
Total Industrial		2	, ,,	\$165,344.79		2	.,,	\$142,015.95	\$0.0766	2	2,316,794	\$170,980.64		2	_,,.	\$158,524.35	\$0.0759
Interdepartmental (In - No Dmd)	ED1	8	63,180	\$6,320.99	\$0.1000	8	79,167	\$7,560.57	\$0.0955	8	65,565	\$6,459.45	\$0.0985	8		\$5,211.49	\$0.1012
Interdepartmental (Out - No Dmd) Interdepartmental (Out - w/Dmd)	ED1O ED2O	0		\$0.00 \$50.86	\$0.0000 \$0.2137	0	240	\$0.00 \$50.36	\$0.0000 \$0.2098	0	192	\$0.00 \$45.93	\$0.0000 \$0.2392	0		\$0.00 \$50.88	\$0.0000 \$0.2165
Interdepartmental (Dut - w/Dmd)	ED20	27	49,447	\$5,868.15	\$0.2137	27		\$8,762.54	\$0.2096	26		\$8,300.04		26		\$50.88	\$0.2165
Interdepartmental (3Ph-In - w/Dmd)	ED3	11	205,612	\$21,129.50	\$0.1028	11		\$25,478.65	\$0.0990	11	306,526	\$30,656.81		11		\$26,080.07	\$0.1035
Interdepartmental (Street Lights)	EDSL	7	62,879	\$5,850.15	\$0.0930	7	62,879	\$5,849.08	\$0.0930	7	62,879	\$5,849.08	\$0.0930	7	62,879	\$5,850.15	\$0.0930
Interdepartmental (Traffic Signals)	EDTS	15		\$169.84	\$0.0925	15		\$202.38	\$0.0925	11		\$177.17		9		\$163.74	\$0.0925
Generators (JV2 Power Cost Only)	GJV2	1	19,199	\$676.19	\$0.0352	1		\$819.53	\$0.0352	1	21,905	\$781.57		1		-\$265.01	-\$0.0147
Generators (JV5 Power Cost Only)	GJV5	1	13,204	\$465.04	\$0.0352	1	15,064	\$530.55	\$0.0352	1	16,067	\$573.27	\$0.0357	1	13,192	-\$193.53	-\$0.0147
Total Interdepartmental		72	415,596	\$40,530.72	\$0.0975	72	517,617	\$49,253.66	\$0.0952	67	545,590	\$52,843.32	\$0.0969	65	450,418	\$42,993.93	\$0.0955
SUB-TOTAL CONSUMPTION & DEMAN	1D	5,867		\$1,179,565.56		5,877		\$1,205,761.53	\$0.0941	5,879	13,959,635	\$1,329,498.57		5,871	12,431,386	\$1,211,374.39	\$0.0974
Street Lights (In)	SLO	15				15		\$13.59	\$0.0000	16		\$191.76		16		\$13.74	\$0.0000
Street Lights (Out)	SLOO	2	0	\$0.77	\$0.0000	2	0	\$0.77	\$0.0000	2	0	\$0.77	\$0.0000	2	0	\$0.76	\$0.0000
Total Street Light Only		17	0	\$14.36	\$0.0000	17		\$14.36	\$0.0000	18		\$192.53	\$0.1316	18	0	\$14.50	\$0.0000
TOTAL CONSUMPTION & DEMAND		5,884 =====	12,294,695	\$1,179,579.92	\$0.0959 ======	5,894 =====	12,817,784	\$1,205,775.89	\$0.0941 ======	5,897 =====	13,961,098	\$1,329,691.10	\$0.0952 ======	5,889 =====	12,431,386	\$1,211,388.89	\$0.0974 ======

ELECTRIC				BILLING DETERMINANTS												DETERMINANTS			
BILLING SUMMARY AND CO		[ ]		<u>г</u>	(	1			1	Í						, I			
NOVEMBER, 2016		++		<b>├</b> ───┤	<u>├</u>	· · · · · · · · · · · · · · · · · · ·		I	'	†				r		+	++		<b> </b> 7
2016 - NOVEMBER BILLING WITH OCTOBER 201		<u> </u>	· !	ſt				[]					۱ <u> </u>			t!			Г <u> </u> Г
	May-16	F			Jun-16				Jul-16	<b>—</b>			Aug-16	———			Sep-16		<u> </u>
Class and/or Rate	# of Bille	May-16 (kWb Lleage)	May-16 Billed	Cost / kWH	# of Bille	Jun-16 (kWb Usage)	Jun-16 Billed	Cost / kWH	# of Bille	Jul-16 (kWb Usage)	Jul-16 Billed	Cost / kWH	# of Bills	Aug-16	Aug-16 Billed	Cost / kWH	# of Bille	Sep-16 (kWh Usage)	Sep-16 Billed
Schedule Code Residential (Dom-In) E1	<u>Bills</u> 3,328	(kWh Usage) 1,745,478	Billed \$196,444.14	For Month \$0.1125	Bills 3,339	(kWh Usage) 1,674,098	<u>Billed</u> \$190,965.01	For Month \$0.1141	Bills 3,340	(kWh Usage) 2,133,169	Billed \$248,418.37	For Month \$0.1165	Bills 3.327	(kWh Usage) 2,832,020	Billed \$332,693.75	For Month \$0.1175	Bills 3,339	(kWh Usage) 3,439,128	Billed \$405,561.66
Residential (Dom-In) w/Ecosmart E1E	9	3,507	\$408.58	\$0.1125	9	3,414	\$402.55	\$0.1141	9	4,890	\$577.51	\$0.1181	9	7,000	\$827.07	\$0.1173	9	7,961	\$946.73
Residential (Dom-In - All Electric) E2	610	457,976	\$49,954.20	\$0.1091	611	379,613	\$42,421.37	\$0.1117	613	381,668	\$44,540.19	\$0.1167	610	458,361	\$54,279.87	\$0.1184	608	519,149	\$61,850.34
Res.(Dom-In - All Elec.) w/Ecosmart E2E	1	511	\$57.67	\$0.1129		534	\$60.52	\$0.1133	1	692	\$80.09	\$0.1157		796	\$93.91	\$0.1180	1	1,026	\$121.06
Total Residential (Domestic)	3,948	2,207,472	\$246,864.59	\$0.1118	3,960	2,057,659	\$233,849.45	\$0.1136	3,963	2,520,419	\$293,616.16	\$0.1165	3,947	3,298,177	\$387,894.60	- \$0.1176	3,957	3,967,264	\$468,479.79
Residential (Rural-Out) ER1	752	663,486	\$77,716.74	\$0.1171	755	586,997	\$70,250.79	\$0.1197	757		\$87,201.53	\$0.1224	760	863,493	\$107,008.31	\$0.1239	760	984,416	\$122,587.50
Residential (Rural-Out) w/Ecosmart ER1E	4	2,328	\$286.46	\$0.1230	4	1,833	\$235.87	\$0.1287	4	2,470	\$316.19	\$0.1280	4	3,000	\$385.56	\$0.1285	4	3,422	\$440.00
Residential (Rural-Out - All Electric) ER2 Res. (Rural-Out - All Electric) w/Ecosmar ER2E	383	427,039 1,902	\$49,004.46 \$221.22	\$0.1148 \$0.1163	384	355,880 1,701	\$41,847.24 \$201.66	\$0.1176 \$0.1186	383		\$46,371.53 \$199.48	\$0.1218 \$0.1242	383	443,608 1,669	\$54,903.94 \$212.18	\$0.1238 \$0.1271	382	509,155 2,157	\$63,286.00 \$272.02
Res. (Rural-Out - All Electric) W/Ecosmai ER2E Residential (Rural-Out w/Dmd) ER3	2 16		\$221.22	\$0.1163	16	27,150	\$201.66	\$0.1186	16		\$199.48	\$0.1242	16	16,942	\$212.18	\$0.1271	5 16	2,157	\$272.02
Residential (Rural-Out - All Electric w/Dm ER4	9	7,908	\$926.67	\$0.1130	2 9	7,392	\$879.39	\$0.1125	9		\$917.12		9	8,540	\$1,073.07	\$0.1245	9	9,466	\$1,195.61
	l																		
Total Residential (Rural)	1,166	1,124,573	\$130,631.35	\$0.1162	1,170	980,953	\$116,469.33	\$0.1187	1,171	1,124,503	\$137,383.41	\$0.1222	1,174	1,337,252	\$165,692.37	\$0.1239	1,173	1,529,195	\$190,341.96
		45.270				10.140		<b>*</b> 0.1410	70	47.000	<u>*0 700 00</u>	<u>*0 1420</u>		49.076	#7 005 1C	<b>*0 1469</b>	<b>—</b>	40.050	A7 005 40
Commercial (1 Ph-In - No Dmd) EC2 Commercial (1 Ph-Out - No Dmd) EC2O	75 43		\$6,290.63 \$1,308.66	\$0.1386 \$0.1965	75 43	42,140 6.225	\$5,948.45 \$1,262.95	\$0.1412 \$0.2029	72 46		\$6,768.08 \$1,415.05	\$0.1430 \$0.2049	75 46	48,276 7,669	\$7,085.12 \$1,536.40	\$0.1468 \$0.2003	8 75 8 47	49,252 7,405	\$7,295.40 \$1,527.13
			φ1,000.00	φυ. 1999	+	U,EEU	φ1,202.00	Φ0.2020	~~		φ1,+10.00	<b>Φ</b> U.2070		7,000	φι,000.+0	φυ.2000		/,****	\$1,527.10
Total Commercial (1 Ph) No Dmd	118	52,038	\$7,599.29	\$0.1460	118	48,365	\$7,211.40	\$0.1491	118	54,244	\$8,183.13	\$0.1509	121	55,945	\$8,621.52	\$0.1541	122	56,657	\$8,822.53
				<u> </u>															
Commercial (1 Ph-In - w/Demand) EC1	256	353,349	\$46,128.85	\$0.1305	257	339,056	\$39,544.56	\$0.1166	257	297,012	\$43,203.06	\$0.1455	258	352,786	\$50,743.54	\$0.1438	258	402,789	\$57,034.99
Commercial (1 Ph-Out - w/Demand) EC10	24	33,089	\$4,386.25	\$0.1326	24	29,990	\$4,043.76	\$0.1348	26	38,595	\$5,289.71	\$0.1371	25	30,982	\$4,512.62	\$0.1457	25	37,237	\$5,295.75
Total Commercial (1 Ph) w/Demand	280	386,438	\$50,515.10	\$0.1307	281	369,046	\$43,588.32	\$0.1181	283	335,607	\$48,492.77	\$0.1445	283	383,768	\$55,256.16	- \$0.1440	283	440,026	\$62,330.74
		300,100	<i>400,010</i>	φ0.100.	L	300,010	φ <del>τ</del> 0,000.01	φυ. ττο .			φτο, το	ψν.ι τ		300,100	φ00,200	ψ0.17.0		740,020	φυ2,000.7 .
Commercial (3 Ph-Out - No Dmd) EC4O	2	400	\$83.56	\$0.2089	2	160	\$55.18	\$0.3449	2	40	\$41.00	\$1.0250	2	80	\$46.26	\$0.5783	2	40	\$41.20
					[]			<b>*</b> 0 2440			¢41.00	A1 0250				AD 5792			 641.20
Total Commercial (3 Ph) No Dmd	2	400	\$83.56	\$0.2089	2	160	\$55.18	\$0.3449	2	40	\$41.00	\$1.0250	2	80	\$46.26	\$0.5783	8 2	40	\$41.20
Commercial (3 Ph-In - w/Demand) EC3	204	1,337,448	\$158,129.92	\$0.1182	202	1,281,048	\$154,525.82	\$0.1206	201	1,379,117	\$172,587.98	\$0.1251	203	1,595,241	\$203,673.47	\$0.1277	202	1,740,671	\$223,495.26
Commercial (3 Ph-In - W/Demand) EC3 Commercial (3 Ph-Out - W/Demand) EC3O	204	333,423	\$158,129.92 \$39,624.69	\$0.1182	39	286,219	\$154,525.82 \$35,062.05	\$0.1206	39		\$36,648.60	\$0.1251 \$0.1292	203	317,778	\$41,164.85	\$0.1277	202 5 40	412,439	\$223,495.26
Commercial (3 Ph-In - w/Dmd.&Sub-St.C EC3S	0	0	\$0.00	\$0.0000		0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00
Commercial (3 Ph-Out - w/Dmd.&Sub-St E3SO	3	134,040	\$14,680.26	\$0.1095	3	127,640	\$14,187.89	\$0.1112	3		\$14,126.22	\$0.1176	3	139,680	\$16,763.38	\$0.1200	3	145,680	\$17,795.85
Commercial (3 Ph-In - w/Demand, No Ta EC3T	1	2,000	\$238.27	\$0.1191		2,040	\$245.05	\$0.1201	1	1,880	\$235.92	\$0.1255	1	3,120	\$442.73	\$0.1419	1	4,800	\$637.44
Total Commercial (3 Ph) w/Demand	247	1,806,911	\$212,673.14	\$0.1177	245	1,696,947	\$204,020.81	\$0.1202	244	1,784,758	\$223,598.72	\$0.1253	246	2,055,819	\$262,044.43	- 3 \$0.1275	·i 246	2,303,590	\$294,210.63
Large Power (In - w/Dmd & Rct) EL1	21	2,454,545	\$231,732.96	\$0.0944	21	2,477,658	\$236,532.65	\$0.0955	21	2,611,643	\$261,934.52	\$0.1003	21	2,731,809	\$284,732.35	\$0.1042	21	3,037,231	\$311,034.61
Large Power (In - w/Dmd & Rct, w/SbCr) EL2	- 3	912,431	\$78,956.21	\$0.0944	.1 3	919,793	\$83,363.79	\$0.0955	3	975,151	\$92,615.26	\$0.0950	3	921,926	\$91,984.54	\$0.0998	3	1,112,508	\$107,637.55
Large Power (Out - w/Dmd & Rct, w/SbCl) EL20	1	370,800	\$33,718.56	\$0.0909	1	366,000	\$34,899.72	\$0.0954	1	405,600	\$40,258.99	\$0.0993	<u>1</u>	398,400	\$40,709.41	\$0.1022	1	451,200	\$45,502.92
Large Power (In - w/Dmd & Rct, w/SbCr) EL3	2		\$14,517.81	\$0.1548	2		\$7,385.30	\$0.1258	2	74,535	\$14,994.13	\$0.2012	2	75,019	\$15,989.77	\$0.2131	2	77,094	
				<u>^0 0027</u>				<u>^0.0049</u>		1 066 000	*****	<u>^0 1009</u>		4 107 154	<u>^ 400 416 07</u>	÷0 1050	07	4 070 000	
Total Large Power Industrial (In - w/Dmd & Rct, w/SbCr) El1	27	3,831,537	\$358,925.54 \$85,857.58	\$0.0937 \$0.0833	27	3,822,136 990,474	\$362,181.46 \$82,403.94	\$0.0948 \$0.0832	27	4,066,929 989,828	\$409,802.90 \$87,858.45	<b>\$0.1008</b> \$0.0888	27	4,127,154	\$433,416.07 \$94,370.91	7 <b>\$0.1050</b> \$0.0898	27	4,678,033	\$ \$482,228.52 \$ \$105,636.89
Industrial (In - w/Dmd & Rct, No/SbCr) EI2	1	990,465	\$79,362.02	\$0.0801		942,832	\$77,160.17	\$0.0818	1	1,001,560	\$85,009.44	\$0.0849	1	989,846	\$88,326.21	\$0.0892	1	1,067,043	
					[]											-			
Total Industrial	2	2,021,177	\$165,219.60	\$0.0817	2	1,933,306	\$159,564.11	\$0.0825	2	1,991,388	\$172,867.89	\$0.0868	2	2,040,827	\$182,697.12	\$0.0895	2	2,247,071	\$199,822.50
Interdepartmental (In - No Dmd) ED1	8	42,349	\$4,637.84	\$0.1095	7	30,257	\$3,583.85	\$0.1184	7	37,530	\$4,545.42	\$0.1211	7	39,363	\$4,882.68	\$0.1240	8	91,948	\$10,692.83
Interdepartmental (Out - No Dmd) ED10	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	0	0	\$0.00	\$0.0000	. 0	0	\$0.00
Interdepartmental (Out - w/Dmd) ED2O	2	368	\$67.89	\$0.1845	2		\$68.39	\$0.1853	2		\$102.05	\$0.1635	2	861	\$134.56	\$0.1563	2	924	
Interdepartmental (In - w/Dmd) ED2	26		\$5,247.09	\$0.1263	26		\$3,357.54	\$0.1322	30		\$3,251.87	\$0.1405	31		\$3,566.86	\$0.1433	27	26,097	
Interdepartmental (3Ph-In - w/Dmd) ED3 Interdepartmental (Street Lights) EDSL	7	235,903 62,879	\$25,894.91 \$5,849.08	\$0.1098 \$0.0930	<u> </u>	187,202 62,879	\$20,851.55 \$5,849.08	\$0.1114 \$0.0930	11		\$19,556.26 \$5,850.15	\$0.1165 \$0.0930	11	174,247 62,879	\$21,123.86 \$5,849.08	\$0.1212 \$0.0930	2 11	165,579 62,879	\$20,410.43 \$5,849.08
Interdepartmental (Street Lights) EDSL Interdepartmental (Traffic Signals) EDTS	9	62,879	\$5,849.08 \$153.77	\$0.0930		62,879	\$5,849.08 \$143.97	\$0.0930	9		\$5,850.15 \$157.37	\$0.0930	i – j∣	62,879	\$5,849.08 \$152.46			62,879	
Generators (JV2 Power Cost Only) GJV2	1	19,031	\$533.06	\$0.0925	i i	17,254	\$308.85	\$0.0925	1		\$227.66	\$0.0925		14,549	\$61.40		1	13,740	
Generators (JV5 Power Cost Only) GJV5	1	13,635	\$381.92	\$0.0280	1	10,693	\$191.40	\$0.0179	1	12,432	\$171.44	\$0.0138	<u>1</u>	11,829	\$49.92		1	11,827	
					[]														
Total Interdepartmental	65	417,360	\$42,765.56	\$0.1025	64	335,606	\$34,354.63	\$0.1024	68	322,741	\$33,862.22	\$0.1049	69	330,275	\$35,820.82	\$0.1085	66	374,576	\$41,240.06
SUB-TOTAL CONSUMPTION & DEMAND	5,855	11,847,906	\$1,215,277.73	\$0.1026	5,869	11,244,178	\$1,161,294.69	\$0.1033	5,878	12,200,629	\$1,327,848.20	\$0.1088	5,871	13,629,297	\$1,531,489.35	5 \$0.1124	5,878	15,596,452	\$1,747,517.93
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Street Lights (In) SLO	16	0	\$13.74		16	0	\$13.74	\$0.0000	16		\$13.73	\$0.0000	16	0	\$13.73		16	0	\$12.99
Street Lights (Out) SLOO	2	0	\$0.77	\$0.0000	2	0	\$0.77	\$0.0000	2	↓	\$0.77	\$0.0000	2	0	\$0.77	\$0.0000	2	0	\$0.77
Total Street Light Only	18		\$14.51	\$0.0000		0	\$14.51	\$0.0000	18	0	\$14.50	\$0.0000	18	0	\$14.50	\$0.0000		0	\$13.76
	•• 			ψ0.0000	<u>⊢</u> +		ψ1····• .	φ0.0000				φυ.υυυς				φυ.ουυτ			
TOTAL CONSUMPTION & DEMAND	5,873	11,847,906	\$1,215,292.24	\$0.1026	,	11,244,178		\$0.1033 ======	5,896 	12,200,629	\$1,327,862.70	\$0.1088 ======	5,889		\$1,531,503.85	5       \$0.1124 	5,896	15,596,452	
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Scheduci         Code         For Mont         Elite         For Mont         Fo	BILLING SUMMARY AN	ID CO										
NoteN	NOVEMBER, 2016											
Date and orth         Pete         Opti More         Opti More <th< th=""><th>2016 - NOVEMBER BILLING WITH OCT</th><th>OBER 20</th><th>1</th><th>Oct-16</th><th></th><th></th><th></th><th>τοται</th><th>τοται</th><th>Ava Cost</th><th>Ava Num</th><th>Ava Per %</th></th<>	2016 - NOVEMBER BILLING WITH OCT	OBER 20	1	Oct-16				τοται	τοται	Ava Cost	Ava Num	Ava Per %
SchedurCodeFor MontBitsAVAI NameBitsFor MontFor MontProductP	Class and/or	Rate	Cost / kWH		Oct-16	Oct-16	Cost / kWH	-				of Bills
Statedrall (Down A) existing         State         Statedrall (Down A) existing         Statedrall (Down A) ex												For Period
Basebell (Down H- All Electric)         E2         501 101         5092         501 116         5005 101         5503 501         501 105         001           Total Readershall (Downski)         1         544         547 71         501 115         0.017         500 100         1.011           Total Readershall (Downski)         1         544         547 71         500 115         0.017         500 100         1.011         540 100         1.011         540 100         1.011         540 100         547 71         550 100         1.011         547 71         550 100											3,339	56.6720%
Bar, Don-H. Af Elec.         Weitsometic         EEE         90.1109         1         944         397.77         50.1109         50.910         50.933         90.1109         1         0.077           Total Residential (Domestic)         90.1101         33.44         35.944.30         \$4114.277.85         \$61.1100         33.364.46         \$51.000.055.55         50.1103         77.129         \$10.000.055.55         50.1103         77.129         \$10.000.055.55         50.1103         77.129         \$10.000.055.55         50.1103         77.129         \$10.000.055.55         50.1103         77.129         \$10.000.055.55         50.1103         79.129         \$10.000.055.55         50.1103         79.129         \$10.000.055.55         50.1103         79.129         \$10.000.055.55         50.1103         79.129         \$10.000.055.55         50.1102         \$10.000.055.55         50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.000.055.55         \$50.1102         \$10.0000.055.55         \$50.1102         \$				-					1-7		9	0.1570%
Cale Residential (Bowestic)         Entity         Source in the state of the sta				608							609	
Beadential (flugal-Out)         EP1         50.10         70         844.20         51.73.75 (2.47)           Readential (flugal-Out) WE (Exercise)         EPEE         50.128         54.129         51.050.26         50.1110         41.000           Readential (flugal-Out) WE (Exercise)         S0.128         54.129         51.125         54.129         51.050.26         50.01110         41.000           Readential (flugal-Out) WE (Exercise)         S0.128         54.129         51.125         55.127         51.550.255         51.1755.26	Res.(Dom-in - All Elec.) w/Ecosman	LZE	\$0.1180				\$0.1156			\$0.1104		0.01707
Redential (Rua) (Jul X Komman         FITE         90.1286         4         3.186         \$40.128         50.128         50.3329         50.318         44         0.057           Bin, Rud (Jul X) (Landric)         Effect         90.128         386.786         10.125         50.326         50.121         50.312         50.114         45.013         50.114         45.013         50.114         50.114         50.114         50.114         50.114         50.114         50.114         50.114         50.114         50.114         50.114         50.114         50.111         50	Total Residential (Domestic)		\$0.1181	3,942	3,594,528	\$414,257.85	\$0.1152	33,362,493	\$3,660,139.81	\$0.1097	3,958	67.1759%
Resource (Intra) Cut - All Eschrong         FRC         50.1263         382         467.018         384.766.10         50.1216         50.24.269         507.127         50.119         3.364         6.112         3.364         6.112         3.364         6.112         3.364         6.112         3.364         6.112         0.226           Resolutin (Juni Cut of Ond)         FTS         50.126         30.127         1.5116         30.1127         1.5116         30.1127         1.6116         30.1127         1.6116         30.1127         1.6126         60.1127         1.61         30.1127         1.6116         30.1127         1.5116         30.1128         1.5126         80.1124         1.717         1.61         0.1126         1.6116         1.61         1.71         1.84         1.71         1.84         1.71         1.84         1.71         1.84         1.71         1.81         1.81         2.60         1.71         1.84         1.71         1.84         1.71         1.84         1.71         1.84         1.71         1.84         1.81         2.60         1.85         1.81         2.61         1.81         2.61         1.81         2.61         1.81         2.61         1.81         1.81         1.81         1.81	Residential (Rural-Out)	ER1	\$0.1245	759	884,230	\$107,817.96	\$0.1219	9,189,944	\$1,060,056.50	\$0.1153	757	12.8476
Ber.         Interview         Stitute         Stitute <th< td=""><td>Residential (Rural-Out) w/Ecosmart</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td>0.06799</td></th<>	Residential (Rural-Out) w/Ecosmart										4	0.06799
Residential (Indual Luk wOmk)         FR0         59.1244         11         19.2341         150.127         130.157         140.030.168         50.1072         116         0.288           Total Residential (Indual Luk and Luc												6.51229
Rendertial (Paral).cl. + Al Equation with a solution of the solution of												
Call Residential (Bura)         Sol. 24         Commercial (1 Ph-In No Dmd)         EC2         Sol. 118         Commercial (1 Ph-In No Dmd)         EC3         Sol. 1147         283         440.502         Sol. 1150         G07.667         Sol. 1181         Commercial (2 Ph-Un-No Dmd)         EC4         Sol. 1187         Commercial (2 Ph-Un-No Dmd)         EC4         Sol. 1282         Commercial (2 Ph-Un-No Dmd)         EC3         Sol. 1284         Sol. 1284         Sol. 1284         Sol. 1282         Commercial (2 Ph-Un-No Dmd)         EC3         Sol. 1284         Commercial (2 Ph-Un-No Dmd)         EC3         Sol 1284         Commercial (2 Ph-Un-No Dmd)         EC3         Sol 1284         Commercial (2 Ph-Un-No Dmd)         EC3         Sol 1284 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.2007</td></t<>												0.2007
Commercial (Phi-N-ND Dnd)         EC2         Sol.141         74         Sol.227         S7.461.56         S0.142         S7.472         S7.863.61         Sol.355         74         .0.766           Commercial (Phi-N-ND Dnd)         EC2         50.1587         14         0.002         \$1,552.64         \$0.1194         0.1567         50.1567         40.076         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1567         50.1562         50.1567         50.1562         50.1561         50.1362         55.4         50.1562         50.1561         50.1362         50.156         4.368         50.1561         50.1362         50.1561         50.1362         50.1361         50.1362 <t< td=""><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	3											
Commercial (1 Ph-Out - No Dmd)         ECG0         \$93,082         4         8,002         \$1,552,94         \$0,1941         \$1,73,08,27         \$0,1867         14         0.73           Taial Commercial (1 Ph) No Dmd         \$0,1557         11         60,050         \$93,043.0         \$0,1450         \$00,057         \$54,044.1         \$0,138         2,000           Commercial (1 Ph-Out - wDemard)         EC1         60,142         25         \$3,74         \$55,294.8         \$0,138         4,463.98         \$53,855.81         \$0,138         2,400           Call Commercial (2 Ph-Out - wDemard)         EC1         \$1,142         557,934.88         \$0,138         4,453.98         \$59,138.27         \$0,138         2,4         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         2,2         0,033         0,033         2,2         0,033         0,033         0,033         0,033         0,033         0,033         0,033         0,033         0,033 </td <td>i otal Residential (Rural)</td> <td></td> <td>\$0.1245</td> <td>1,172</td> <td>1,384,991</td> <td>\$168,707.84</td> <td>\$0.1218</td> <td>15,159,296</td> <td>\$1,734,701.55</td> <td>\$0.1144</td> <td>1,171</td> <td>19.8832</td>	i otal Residential (Rural)		\$0.1245	1,172	1,384,991	\$168,707.84	\$0.1218	15,159,296	\$1,734,701.55	\$0.1144	1,171	19.8832
Total Commercial (1 Ph) No Dmd         EC1         Store         Immercial (1 Ph-in-wDemand)         EC1         Store         Immercial (2 Ph-in-wDemand)         EC1         Store												1.26179
Total Commercial (1 Ph) to Dmd         90.557         119         90.029         99.01450         90.1592         970,667         989,144.61         99.144.61         99.144.61         99.144.61         99.144.61         99.144.61         99.144.61         99.144.61         99.144.61         99.144.61         99.146.61         99.145.61	Commercial (1 Ph-Out - No Dmd)	EC2O	\$0.2062				\$0.1941			\$0.1857		0.7468%
Commercial (1 Ph-Out: wDmand)         EC10         90.1422         25         88.722         55.208.00         90.1395         Q4         0.414           Total Commercial (2 Ph) wDenand         EC40         \$1.030         2         498.244         \$67.934.8         \$9.1395         44.65,196         \$51.392         28.1325         281         4.763           Commercial (3 Ph) No Dmd         EC40         \$1.030         2         40         \$41.06         \$1.020         \$2.127.99         \$0.1382         2         0.033           Total Commercial (3 Ph) No Dmd         EC33         \$0.1284         22         1.91.455         \$528.552.1         \$0.000         \$2.123.978.27         \$0.1178         204         .43.52           Commercial (3 Ph-Out - wDmand)         EC33         \$0.1284         22         1.91.455         \$528.552.1         \$0.000         \$2.128.978.277.330.00         \$0.1178         204         .43.52           Commercial (3 Ph-Wmand)         EC33         \$0.1222         3         \$14.28.40         \$116.780.77         \$0.1179         30.050         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000	Total Commercial (1 Ph) No Dmd		\$0.1557				\$0.1502			\$0.1434		2.0085
Commercial (1 Ph-Out: wDmand)         EC10         90.1422         25         88.722         55.208.00         90.1395         Q4         0.414           Total Commercial (2 Ph) wDenand         EC40         \$1.030         2         498.244         \$67.934.8         \$9.1395         44.65,196         \$51.392         28.1325         281         4.763           Commercial (3 Ph) No Dmd         EC40         \$1.030         2         40         \$41.06         \$1.020         \$2.127.99         \$0.1382         2         0.033           Total Commercial (3 Ph) No Dmd         EC33         \$0.1284         22         1.91.455         \$528.552.1         \$0.000         \$2.123.978.27         \$0.1178         204         .43.52           Commercial (3 Ph-Out - wDmand)         EC33         \$0.1284         22         1.91.455         \$528.552.1         \$0.000         \$2.128.978.277.330.00         \$0.1178         204         .43.52           Commercial (3 Ph-Wmand)         EC33         \$0.1222         3         \$14.28.40         \$116.780.77         \$0.1179         30.050         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000	Commercial (1 Ph-In - w/Demand)	FC1	\$0 1416	258	460 502	\$62,668,02	\$0 1361	4 055 244	\$537 693 46	\$0 1326	256	4.34959
Total Commercial (1 Ph) wDomand         50.1417         283         499.244         \$67.934.80         90.1351         4463.196         \$591.319.27         90.1352         20.117         10.115         <												0.41449
Commercial (3 Ph-Out - No Dmd)         EC40         \$1000         2         40         \$1000         51025         16,200         \$2,477.99         \$0,1362         2         0.033           Total Commercial (3 Ph) No Dmd         \$1,0300         2         40         \$10,025         \$10,205         \$2,477.99         \$0,1362         2         0.033           Commercial (3 Ph-Nu - WDmd Abcub St, ES30         \$0,1284         202         1,914,835         \$238,552.14         \$0,1284         18,100,567         \$2,132,978.27         \$0,1176         204         3.455           Commercial (3 Ph-Nu - WDmd Abcub St, ES30         \$0,1284         30,1286         36,0000         0         \$0,000         20,380         \$80,0177         30,1762         \$0,1176         30,000         40,000         \$4,22,488         \$0,1171         30,050         30,020         30,000         \$2,288,30,1174         10,0171         30,050         30,020         30,020         \$2,288,30,1174         10,0171         30,050         \$2,288,30,1174         10,017         10,017         10,017         10,017         10,017         10,017         10,017         14,140,001         14,140,001         14,140,001         14,140,003         \$2,289,919,930         \$0,0037         21         0,35,000         10,017         14	· · ·											
Instrumental (3 Ph) No Dm         Image         I	Total Commercial (1 Ph) w/Demand		\$0.1417	283	499,244	\$67,934.88	\$0.1361	4,463,196	\$591,319.27	\$0.1325	281	4.76399
Total Commercial (3 Ph) No Dmd         \$1.0200         2         40         \$41.06         \$1.0265         18,200         \$2.477.99         \$0.1362         2         0.43           Commercial (3 Ph-n. wDmand)         EC3         \$0.1264         202         1.914.635         \$23.552.14         \$0.1284         \$21.32.978.27         \$0.1178         2.04         3.45           Commercial (3 Ph-n. wDmAsbub-SLC         EC33         \$0.1282         31         40.1539         4.51.529         451.502.04         \$0.000         20.38.80         \$20.054.86         \$0.107         0.000           Commercial (3 Ph-n. wDmAsbub-SLC         EC33         \$0.1222         1         6.240         \$777.43         \$0.1239         4.41.000         10.0567         \$0.0170         0.000           Commercial (3 Ph-n. wDmand, No Ta         EC37         \$0.1227         244 <b>2.477.99</b> \$0.177         1.005.27         \$0.1171         1.001.000         \$1.005.27         \$0.0171         1.001.000         \$1.005.27         \$0.0171         1.001.000         \$1.005.27         \$0.0171         1.001.000         \$1.005.27         \$0.0171         1.001.000         \$1.005.27         \$0.0171         1.001.000         \$0.00051         1.001.27         \$0.1031         \$0.00051         1.001.77	Commercial (3 Ph-Out - No Dmd)	EC4O	\$1.0300	_			\$1.0265		\$2,477.99	\$0.1362	-	0.03399
Commercial (3 Ph-Out - wDmand)         EG3O         50.108         38         415.562         \$51.509.04         50.129         4.512.811         \$527.333.06         50.1106         39         0.662           Commercial (3 Ph-In - wDmd Skub-Sit         E3SO         \$50.000         0         \$0.000         \$20.808         \$527.333.06         \$0.1107         3<0.050	Total Commercial (3 Ph) No Dmd		\$1.0300				\$1.0265		\$2,477.99	\$0.1362		0.0339
Commercial (3 Ph-Out - wDmand)         EG3O         50.108         38         415.562         \$51.509.04         50.129         4.512.811         \$527.333.06         50.1106         39         0.662           Commercial (3 Ph-In - wDmd Skub-Sit         E3SO         \$50.000         0         \$0.000         \$20.808         \$527.333.06         \$0.1107         3<0.050	Commercial (3 Ph-In - w/Demand)	FC3	\$0 1284	202	1 914 635	\$238 552 14	\$0 1246	18 100 567	\$2 132 978 27	\$0 1178	204	3.4555
Commercial (3) Phi-h - wDmd. & Sub-St.C. EC3S         \$0.0000         0         \$0.00         20.0000         20.3.860         \$20.524.88         \$0.1007         0         0.000           Commercial (3) Phi-h - wDmd. & Sub-St.C. S.         \$0.1122         1         6.240         \$17.61.877         \$0.1175         1.591.200         \$17.61.873.4         \$0.1107         0.050           Commercial (3) Phi-h - wDmd. A Brd)         EC3T         \$0.1227         244         \$2.479.297         \$307.622.38         \$0.1241         24.42.006         \$2.861.247.20         \$0.1171         247         4.188           Large Power (n - wDmd & Rct, wSbCr)         EL1         \$0.1024         21         2.685.366         \$2244.900.17         \$0.1061         31.403.963         \$2.908.91.93.80         0.093         1.001.32         0.048           Large Power (n - wDmd & Rct, wSbCr)         EL3         \$0.0242         2         75.75         \$1.31.438         80.1077         \$4.308.900         \$4.003.251.16         \$8.0036         1<0.013           Large Power (n - wDmd & Rct, wSbCr)         EL3         \$0.232         2         75.75         \$1.31.438.88         \$0.1771         \$27.42.128         \$4.042.81.28         \$0.0926         2         0.033           Large Power (n - wDmd & Rct, wSbCr)         EL1												0.6620%
Commercial (3 Ph-In - wDemand, No Ta         EG3T         \$0.1328         1         6.240         \$771.43         \$0.1256         34.800         \$4.223.63         \$0.1214         1         0.017           Total Commercial (3 Ph) wDemand         \$0.1277         244         2,479,297         \$307,622.38         \$0.1241         24,442,808         \$2,961,247.20         \$0.0177         244         4.188           Large Power (In - wDmd & Rct), wSbCr)         EL2         \$0.0061         1         474.000         \$44,28,488         \$1.008,344         \$1.008,342         \$0.0863         3         0.048           Large Power (In - wDmd & Rct, wSbCr)         EL2         \$0.1031         27         7.574         \$90.0964         11.680.334         \$1.008,142         \$0.0363         3         0.048           Large Power (In - wDmd & Rct, wSbCr)         EL3         \$0.2342         2         7.574         \$90.097         \$4.308.000         \$40.281.16         \$0.0365         1         0.017           Large Power (In - wDmd & Rct, wSbCr)         EI1         \$0.0381         27         7.5674         \$10.349.88         \$47.7143         \$0.0876         13.059.707         \$1.051.592.60         \$0.0085         1         0.017           Total Industrial (In - wDmd & Rct, wSbCr)         EI1	Commercial (3 Ph-In - w/Dmd.&Sub-St.C		\$0.0000		0		\$0.0000					0.0028%
Industrial         Image Description         Image Description <thr< td=""><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td>0.0509%</td></thr<>				3							3	0.0509%
Large Power (n - w/Dmd & Rct, w/SbCr)         EL         \$0.104         21         2.868.366         \$284.900.17         \$0.1061         31.043.083         \$2908.919.93         \$0.0937         21         0.556           Large Power (lu - w/Dmd & Rct, w/SbCr)         EL2         \$0.0968         3         1.006.242         \$0.0967         4.306.000         \$403.251.16         \$0.0986         1         0.017           Large Power (lu - w/Dmd & Rct, w/SbCr)         EL3         \$0.2342         2         75.674         \$13.439.68         \$0.077         \$0.2325.16         \$0.0386         1         0.017           Large Power (nu - w/Dmd & Rct, w/SbCr)         EL3         \$0.0937         27 <b>4.241.349.68</b> \$0.0776         \$1.051.592.60         \$0.0321         2         0.033           Total Large Power         \$0.0035         1         1.140.232         \$99.897.30         \$0.00876         13.059.707         \$1.051.592.60         \$0.0805         1         0.017           Industrial (In - w/Dmd & Rct, W/SbCr)         EL2         \$0.0889         2         \$2.144.675         \$167.411.78         \$0.0876         12.377.313         \$980.337.03         \$0.0792         2         0.033           Interdepartmental (In - No Dmd)         ED1         \$0.0163         6	Commercial (3 Ph-In - w/Demand, No Ta	EC3T	\$0.1328	1			\$0.1236			\$0.1214	1	0.01709
Large Power (in - wDmd & Rct, wSbCr)       EL2       \$0.0068       3       1.006,242       \$96,026.30       \$0.0954       11.600,334       \$1.001,342.22       \$0.0863       3       0.048         Large Power (in - wDmd & Rct, wSbCr)       EL3       \$0.2342       2       7.574       \$13,439.88       \$0.176       \$22,362       \$12,2,518.94       \$0.032.511       \$0.0964       1.001         Total Large Power       \$0.1031       27       4,241,282       \$440,218.32       \$0.0867       4.308,000       \$44.32,824.25       \$0.0926       27       0.455         Industrial (in - wDmd & Rct, w/SbCr)       El1       \$0.0985       1       1,104,232       \$99,897.30       \$0.0876       13.059,707       \$1.051,592.60       \$0.00805       1       0.017         Industrial (in - wDmd & Rct, w/SbCr)       El1       \$0.0986       2       2,144,675       \$187,411.78       \$0.0876       12.377,313       \$990,337.03       \$0.0792       1       0.017         Interdepartmental (in - No Dmd)       ED1       \$0.1163       8       42.288       \$5,155.27       \$0.122       609,859       \$66,326.08       \$0.1088       8       0.131         Interdepartmental (in - No Dmd)       ED1       \$0.0161       2       725       \$2.124.38	Total Commercial (3 Ph) w/Demand		\$0.1277	244	2,479,297	\$307,622.38	\$0.1241	24,442,808	\$2,861,247.20	\$0.1171	247	4.18829
Large Power (in - w/Dmd & Ret, w/SbC) EL20 \$0.1008 1 1 474,000 \$454,851.97 \$0.0867 4.308,000 \$4.03,251.16 \$0.0936 1 0.017 Large Power (in - w/Dmd & Ret, w/SbC) EL3 \$0.2342 2 75,674 \$13,439.88 \$0.1776 9927,362 \$122,518.94 \$0.1321 2 0.033 	Large Power (In - w/Dmd & Rct)	EL1	\$0.1024	21	2,685,366	\$284,900.17	\$0.1061	31,043,093	\$2,908,919.93	\$0.0937	21	0.35649
Large Power (In - w/Dmd & Rct, w/SbCr)         EL3         \$0.2342         2         75.674         \$13.439.88         \$0.1776         927.362         \$122.518.94         \$0.1321         2         0.033           Total Large Power         \$0.1031         27         4.241.282         \$0.1031         47.958.789         \$4.442.824.25         \$0.0926         27         0.455           Industrial (In - w/Dmd & Rct, w/SbCr)         EI1         \$0.0895         1         1.140.292         \$99.897.30         \$0.0876         13.059.707         \$1.051.592.60         \$0.0905         1         0.017           Industrial (In - w/Dmd & Rct, w/SbCr)         EI2         \$0.0888         1         1.044.383         \$87.514.48         \$0.0871         12.377.313         \$980.337.03         \$0.0799         2         0.033           Interdepartmental (In - w/Dmd & Rct, w/SbCr)         ED1         \$0.1163         8         42.288         \$5.155.27         \$0.1220         609.859         \$66.326.08         \$0.0080         0         0         0.003           Interdepartmental (Out - wDmd)         ED1         \$0.1161         8         42.288         \$5.152.77         \$0.1324         475.896         \$50.0000         0         0.000           Interdepartmental (Out - wDmd)         ED2		EL2	\$0.0968				\$0.0954	11,680,334			3	0.04819
Total Large Power         \$0.1031         27         4,241,282         \$440,218.32         \$0.1038         47,958,789         \$4,442,824.25         \$0.0926         27         0.455           Industrial (In - wDmd & Rct, w/SbCr)         EI1         \$0.0895         1         1.140.292         \$99,897.30         \$0.0876         13,059,707         \$1.051,592.60         \$0.0805         1         0.017           Industrial (In - wDmd & Rct, N/SbCr)         EI2         \$0.0883         1         1.004,383         \$87,514.48         \$0.0876         13,059,707         \$1.051,592.60         \$0.0805         1         0.017           Industrial (In - wDmd & Rct, N/SbCr)         EI2         \$0.0889         2         2,144,675         \$187,711.78         \$0.0876         12,277,313         \$990,337.03         \$0.0799         2         0.037           Interdepartmental (In - No Dmd)         ED1         \$0.1163         8         42,288         \$5,155.27         \$0.120         \$0.0989         \$0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000         0         0.000 <td></td> <td>EL2O</td> <td></td> <td>1</td> <td></td> <td>\$45,851.97</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>0.01709</td>		EL2O		1		\$45,851.97					1	0.01709
Total Large Power         \$0.1031         27         4,241,282         \$44,421,822         \$0.1038         47,958,789         \$4,442,824.25         \$0.0926         27         0.455           Industrial (In - w/Dmd & Rct, w/SbCr)         EI1         \$0.0895         1         1.140,292         \$99,897.30         \$0.0876         13,059,707         \$1,051,592.60         \$0.0805         1         0.017           Industrial (In - w/Dmd & Rct, No/SbCr)         EI2         \$0.0889         2         2,144,675         \$187,411.78         \$0.0876         13,059,707         \$1,051,592.60         \$0.0792         1         0.017           Total Industrial         \$0.0889         2         2,144,675         \$187,411.78         \$0.0874         25,437,020         \$2,031,929.63         \$0.0792         0.033           Interdepartmental (Un - ND Dmd)         ED10         \$0.000         0         0         \$0.0003         \$0.0101         \$0.0	Large Power (In - w/Dmd & Rct, w/SbCr)	EL3	\$0.2342		- 7 -	\$13,439.88	\$0.1776	927,362	\$122,518.94	\$0.1321		0.03399
Industrial         So.0895         1         1,140,292         \$99,897,30         \$0.0876         13,059,707         \$1,051,592,60         \$0.0805         1         0.017           Industrial (In - wDmd & Rct, No/SbCr)         EI2         \$0.0889         2         2,144,675         \$187,411.78         \$0.0874         25,337,020         \$2,031,929,63         \$0.0792         1         0.017           Total Industrial         \$0.0889         2         2,144,675         \$187,411.78         \$0.0874         25,437,020         \$2,031,929,63         \$0.0799         2         0.033           Interdepartmental (Out - No Dmd)         ED10         \$0.0168         8         0.017         \$0.0000         0         \$0.000         \$0.0000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         \$0.0000         0         \$0.000         \$0.0000         0         \$0.000         \$0.0000         \$0.0000         \$0.0000         \$0.0000         0         \$0.000         \$0.0000         \$0.0000         \$0.0000         \$0.0000         \$1.004,78         \$0.1241         \$0.77         \$0.	Total Large Power		\$0,1031			\$440 218 32	\$0,1038	47 958 789	\$4 442 824 25	\$0.0926		0.4555
Industrial (in - w/Dmd & Rct, No/SbCr)       El2       \$0.0883       1       1,004,383       \$87,514.48       \$0.0871       12,377,313       \$980,337.03       \$0.0792       1       0.017         Total Industrial       \$0.0889       2       2,144,675       \$187,411.78       \$0.0874       25,437,020       \$2,031,929       2       0.017         Interdepartmental (In - No Dmd)       ED1       \$0.1163       8       42,268       \$5,155.27       \$0.020       609,859       \$66,326.08       \$0.0000       0       0.000         Interdepartmental (Out - WDmd)       ED10       \$0.0000       0       \$0.0000       0       \$0.0000       0       0.0000       0       0.0000       0       0.0000       0       0.0000       0       0.003       Interdepartmental (Du - WDmd)       ED2       \$0.1424       27       25,226       \$3,5177       \$0.1394       476,885       \$59,187.44       \$0.0241       27       0.456         Interdepartmental (Gurt - WDmd)       ED3       \$0.1233       11       214,907       \$25,016.23       \$0.1164       2,542,749       \$274,339.33       \$0.1079       11       0.186         Interdepartmental (Gurt - WDmd)       ED3       \$0.0242       9       1,783       \$164.85       \$0.0930			ψ0.1001	21	4,241,202	\$110,E10.0E	φ <b>0.1000</b>	41,000,100	ψ <del>1,112,021.20</del>	\$0.0520	21	0.4000
Total Industrial         \$0.0889         2         2,144,675         \$187,411.78         \$0.0874         25,437,020         \$2,031,929,63         \$0.0799         2         0.033           Interdepartmental (In - No Dmd)         ED1         \$0.1163         8         42,268         \$5,155.27         \$0.1220         609,859         \$66,326.08         \$0.0108         8         0.131           Interdepartmental (Out - No Dmd)         ED10         \$0.0000         0         \$0.000         \$0.0000	Industrial (In - w/Dmd & Rct, w/SbCr)	El1	\$0.0895	1	1,140,292	\$99,897.30	\$0.0876	13,059,707	\$1,051,592.60	\$0.0805	1	0.01709
Total Industrial         \$0.0889         2         2,144,675         \$187,411.78         \$0.0874         25,437,020         \$2,031,929.63         \$0.0799         2         0.033           Interdepartmental (In - No Dmd)         ED1         \$0.1163         8         42,288         \$5,155.27         \$0.020         \$0.000         0         \$0.000         0         \$0.000         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         \$0.000         1         \$0.000         1<10.188	Industrial (In - w/Dmd & Rct, No/SbCr)	El2	\$0.0883	1	1 1		\$0.0871	12,377,313		\$0.0792	1	0.01709
Interdepartmental (In - No Dmd)         ED1         \$0.1163         8         42.268         \$5,152.7         \$0.1220         609.859         \$66,326.08         \$0.1088         8         0.030           Interdepartmental (Out - No Dmd)         ED10         \$0.000         0         \$0.000         0         \$0.000         \$0.000         \$0.000         \$0.000         \$0.000         \$0.0000	Total Industrial		\$0.0990				¢0.0974	25 427 020		\$0.0700		0 02200
Interdepartmental (Out - No Dmd)         ED10         \$0.000         0         \$0.000         \$0.000         0         \$0.000         \$0.000         0         \$0.000         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         \$0.000         0         0.000			\$0.000 <del>9</del>	2	2,144,075	\$107,411.76	φ0.0074	25,457,020	\$2,031,929.03	ş0.0799	2	0.0339
Interdepartmental (Out - No Dmd)         ED10         \$0.000         0         \$0.000         \$0.000         0         \$0.000         0         \$0.000         0         0.000         \$0.000         0         0	Interdepartmental (In - No Dmd)	ED1	\$0.1163	8	42,268	\$5,155.27	\$0.1220	609,859	\$66,326.08	\$0.1088	8	0.1315
Interdepartmental (In - w/Dmd)         ED2         \$0.1424         27         25,226         \$3,515,77         \$0.1394         476,885         \$59,187,49         \$0.1241         27         0.465           Interdepartmental (Br- w/Dmd)         ED3         \$0.1233         11         21,490         \$25,016,23         \$0.1164         2,542,749         \$27,4339,33         \$0.1079         11         0.166           Interdepartmental (Street Lights)         EDSL         \$0.0930         7         62,879         \$5,851.14         \$0.0925         21,443         \$1,982,62         \$0.0925         11         0.186           Interdepartmental (Traffic Signals)         EDTS         \$0.0924         9         1,783         \$164,85         \$0.0925         21,443         \$1,982,62         \$0.0925         1         0.188           Generators (JVS Power Cost Only)         GJVS         \$0.0110         1         16,181         \$1,059,37         \$0.0655         154,058         \$3,982,48         \$0.0259         1         0.017           Generators (JVS Power Cost Only)         GJVS         \$0.1101         66         376,439         \$41,698,54         \$0.1108         4,780,166         \$482,666,21         \$0.0101         66         1.158           SUB-TOTAL CONSUMPTION & DEMAND </td <td>Interdepartmental (Out - No Dmd)</td> <td>ED1O</td> <td>\$0.0000</td> <td>0</td> <td>0</td> <td>\$0.00</td> <td>\$0.0000</td> <td></td> <td>\$0.00</td> <td>\$0.0000</td> <td>0</td> <td>0.0000</td>	Interdepartmental (Out - No Dmd)	ED1O	\$0.0000	0	0	\$0.00	\$0.0000		\$0.00	\$0.0000	0	0.0000
Interdepartmental (3Ph-In - w/Dmd)         ED3         \$0.1233         11         214,907         \$25,016,23         \$0.1164         2,542,749         \$274,339,33         \$0.0079         11         0.186           Interdepartmental (3Ptret Lights)         EDSL         \$0.0930         7         62,879         \$5,851.14         \$0.0931         754,548         \$70,207.45         \$0.0930         7         0.118           Interdepartmental (Taffic Signals)         EDTS         \$0.0924         9         1,783         \$164,85         \$0.0925         214,430         \$194,862         \$0.0925         214,470         \$5,637.97         \$0.0263         1         0.017           Generators (JV2 Power Cost Only)         GJV2         \$0.0110         1         12,410         \$812,48         \$0.0655         214,720         \$5,637.97         \$0.0263         1         0.017           Generators (JV5 Power Cost Only)         GJV5         \$0.0110         1         12,410         \$812,48         \$0.0655         154,058         \$3,982,48         \$0.0259         1         0.017           Total Interdepartmental         \$0.1101         66         376,439         \$41,698,54         \$0.1108         4,780,168         \$482,668,21         \$0.0100         68         1.158      <												0.03399
Interdepartmental (Street Lights)         EDSL         \$0.0930         7         62,879         \$5,851.14         \$0.0931         754,548         \$70,207.45         \$0.0930         7         0.118           Interdepartmental (Traffic Signals)         EDTS         \$0.0924         9         1,783         \$164.85         \$0.0925         21,443         \$1,982.62         \$0.0925         11         0.188           Generators (JV2 Power Cost Only)         GJV2         \$0.0110         1         16,181         \$1,059.37         \$0.0655         214,720         \$5,637.97         \$0.0263         1         0.017           Generators (JV5 Power Cost Only)         GJV2         \$0.0110         1         12,410         \$812,448         \$0.0655         154,058         \$3,982.48         \$0.0259         1         0.017           Generators (JV5 Power Cost Only)         GJV5         \$0.1101         12,410         \$812,448         \$0.0655         154,058         \$3,982.48         \$0.0259         1         0.017           Generators (JV5 Power Cost Only)         GJV100         \$1,244         \$0.0655         1108         4,780,168         \$482,668.21         \$0.0100         68         1.158           SUB-TOTAL CONSUMPTION & DEMAND         \$0,1120         5,857         14,780,5												0.46549
Interdepartmental (Traffic Signals)         EDTS         \$0.0924         9         1,783         \$164.85         \$0.0925         21,443         \$1,982.62         \$0.0925         11         0.188           Generators (JV2 Power Cost Only)         GJV2         \$0.0110         1         16,181         \$1,059.37         \$0.0655         214,720         \$5,637.97         \$0.0263         1         0.017           Generators (JV5 Power Cost Only)         GJV5         \$0.1101         1         12,410         \$812.48         \$0.0655         154,058         \$3,982.48         \$0.0259         1         0.017           Generators (JV5 Power Cost Only)         GJV5         \$0.1101         66         376,439         \$41,688.54         \$0.1108         4,780,168         \$482,668.21         \$0.1010         68         1.158           SUB-TOTAL CONSUMPTION & DEMAND         \$0.1120         5,857         14,780,525         \$1,636,907.15         \$0.1107         156,292,637         \$15,903,452.52         \$0.1018         5,874         99.701           Street Lights (In)         SLO         \$0.0000         16         0         \$13.74         \$0.0000         1,463         \$341.37         \$0.2333         16         0.264           Street Lights (In)         SLOO         \$0				11								0.1867
Generators (JV2 Power Cost Only)         GJV2         \$0.0110         1         16,181         \$1,059.37         \$0.0655         214,720         \$5,637.97         \$0.0263         1         0.017           Generators (JV5 Power Cost Only)         GJV5         \$0.0110         1         12,410         \$812,48         \$0.0655         154,058         \$3,382,48         \$0.0259         1         0.017           Total Interdepartmental         \$0.1101         66         376,439         \$41,698.54         \$0.1108         4,780,168         \$482,668.21         \$0.0101         68         1.158           SUB-TOTAL CONSUMPTION & DEMAND         \$0.1120         5,857         14,780,525         \$1,636,907.15         \$0.1107         156,292,637         \$15,903,452.52         \$0.01018         5,874         99.701           Street Lights (In)         SLOO         \$0.0000         16         0         \$13.74         \$0.0000         1,463         \$341.37         \$0.2333         16         0.264           Street Lights (Out)         SLOO         \$0.0000         2         0         \$0.777         \$0.0000         0         \$9.233         16         0.264           Street Lights (Out)         SLOO         \$0.0000         2         0         \$0.0000				9								0.18819
Total Interdepartmental         \$0.1101         66         376,439         \$41,698.54         \$0.1108         4,780,168         \$422,668.21         \$0.1010         68         1.58           SUB-TOTAL CONSUMPTION & DEMAND         \$0.1120         5,857         14,780,525         \$1,636,907.15         \$0.1107         156,292,637         \$15,903,452.52         \$0.0108         5,874         99.701           SUB-TOTAL CONSUMPTION & DEMAND         \$0.1120         5,857         14,780,525         \$1,636,907.15         \$0.1107         156,292,637         \$15,903,452.52         \$0.0108         5,874         99.701           Street Lights (In)         SLO         \$0.0000         16         0         \$13,74         \$0.0000         1,463         \$341.37         \$0.2333         16         0.264           Street Lights (In)         SLO         \$0.0000         2         0         \$0.77         \$0.0000         0         \$9.23         \$0.0000         2         0.033           Total Street Light Only         \$0.0000         18         0         \$14,51         \$0.0000         1,463         \$3350.60         \$0.2396         18         0.298           TOTAL CONSUMPTION & DEMAND         \$0.01120         \$5,875         14,780,525         \$1,636,921.66         \$0.1107 </td <td>Generators (JV2 Power Cost Only)</td> <td>GJV2</td> <td>\$0.0110</td> <td></td> <td>16,181</td> <td>\$1,059.37</td> <td>\$0.0655</td> <td>214,720</td> <td>\$5,637.97</td> <td>\$0.0263</td> <td>1</td> <td>0.0170</td>	Generators (JV2 Power Cost Only)	GJV2	\$0.0110		16,181	\$1,059.37	\$0.0655	214,720	\$5,637.97	\$0.0263	1	0.0170
Total Interdepartmental         \$0.1101         66         376,439         \$41,698.54         \$0.1108         4,780,168         \$482,668.21         \$0.1010         66         1.158           SUB-TOTAL CONSUMPTION & DEMAND         \$0.1100         \$14,780,525         \$1,636,907.15         \$0.1107         156,292,637         \$15,903,452.52         \$0.1018         5,874         99.701           SUB-TOTAL CONSUMPTION & DEMAND         \$0.0000         16         0         \$13.74         \$0.0000         1,463         \$341.37         \$0.233         16         0.264           Street Lights (In)         SLO         \$0.0000         16         0         \$13.77         \$0.0000         0         \$9.23         \$0.0000         2         0.333         16         0.264           Street Lights (Out)         SLOO         \$0.0000         2         0         \$0.777         \$0.0000         0         \$9.23         \$0.0000         2         0.333           Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0.298           Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0100         \$1,6294,100 <td< td=""><td>Generators (JV5 Power Cost Only)</td><td>GJV5</td><td>\$0.0110</td><td>1</td><td></td><td></td><td>\$0.0655</td><td></td><td></td><td>\$0.0259</td><td>1</td><td>0.01709</td></td<>	Generators (JV5 Power Cost Only)	GJV5	\$0.0110	1			\$0.0655			\$0.0259	1	0.01709
SUB-TOTAL CONSUMPTION & DEMAND         \$0.1120         5,857         14,780,525         \$1,636,907.15         \$0.1107         156,292,637         \$15,903,452.52         \$0.1018         5,874         99.701           Street Lights (In)         SLO         \$0.0000         16         0         \$13,74         \$0.0000         1,463         \$341.37         \$0.2333         16         0.264           Street Lights (Out)         SLOO         \$0.0000         2         0         \$0.77         \$0.0000         0         \$9.23         \$0.0000         2         0.033           Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         \$2.98         \$2.98	Total Interdepartmental		\$0.1101	66	376,439		\$0.1108			\$0.1010	68	1.15849
Street Lights (Out)         SLOO         \$0.0000         2         0         \$0.77         \$0.0000         0         \$9.23         \$0.0000         2         0.033           Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0.298           TOTAL CONSUMPTION & DEMAND         \$0.1120         5,875         14,780,525         \$1,636,921.66         \$0.1107         156,294,100         \$15,903,803.12         \$0.1018         5,892         100.0000	SUB-TOTAL CONSUMPTION & DEMAN	ID	\$0.1120			\$1,636,907.15	\$0.1107	156,292,637		\$0.1018		99.7015
Street Lights (Out)         SLOO         \$0.0000         2         0         \$0.77         \$0.0000         0         \$9.23         \$0.0000         2         0.033           Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0.298           TOTAL CONSUMPTION & DEMAND         \$0.1120         5,875         14,780,525         \$1,636,921.66         \$0.1107         156,294,100         \$15,903,803.12         \$0.1018         5,892         100.0000												
Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0.298           TOTAL CONSUMPTION & DEMAND         \$0.1120         5,875         14,780,525         \$1,636,921.66         \$0.1107         156,294,100         \$15,903,803.12         \$0.1018         5,892         100.000	Street Lights (In)										16	0.2645
Total Street Light Only         \$0.0000         18         0         \$14.51         \$0.0000         1,463         \$350.60         \$0.2396         18         0.298           TOTAL CONSUMPTION & DEMAND         \$0.1120         5,875         14,780,525         \$1,636,921.66         \$0.1107         156,294,100         \$15,903,803.12         \$0.1018         5,892         100.0000	Street Lights (Out)	SLOO	\$0.0000				\$0.0000			\$0.0000	2	0.03399
TOTAL CONSUMPTION & DEMAND \$0.1120 5,875 14,780,525 \$1,636,921.66 \$0.1107 156,294,100 \$15,903,803.12 \$0.1018 5,892 100.000	Total Street Light Only		\$0.0000				\$0.0000			\$0.2396	18	0.2985
	TOTAL CONSUMPTION & DEMAND		\$0.1120	5,875	14,780,525	\$1,636,921.66	\$0.1107	156,294,100	\$15,903,803.12	\$0.1018		100.0000



#### RATE REVIEW COMPARISONS - Current to Prior Month and Prior Year

2016 NOVEMBER - ELECTRIC	PSCAF ·	BILLING		SIONS TO PRIC	OR PERIODS						
Rate Comparisons to Prior Month ar											
			Current	Prior Month	Prior Year				Current	Prior Month	Prior Year
	Service	Service	November	October	November	S	Service	Service	November	October	November
Customer Type	<u>Usage</u>	<u>Units</u>	2016 Rate	2016 Rate	2015 Rate	l	<u>Usage</u>	<u>Units</u>	2016 Rate	2016 Rate	<u>2015 Rate</u>
<u>Customer Type -&gt;</u>		RESID		' <mark>R - (w∕Gas He</mark> a				RESID		<u> R - (All Electr</u>	
Customer Charge			\$6.00	\$6.00	\$6.00				\$6.00	\$6.00	\$6.00
Distribution Energy Charge			\$20.93	\$20.93	\$20.93				\$33.39	\$33.39	\$33.39
Distribution Demand Charge											
Power Supply Energy Charge	978	kWh	\$71.20	\$71.20	\$71.20		1,976	kWh	\$143.85	\$143.85	\$143.85
Power Supply Demand Charge											
PSCAF - Monthly Factor	978	kWh	\$4.88	\$9.60	-\$5.78		1,976	kWh	\$9.86	\$19.40	-\$11.68
kWH Tax- Level 1	978	kWh	\$4.55	\$4.55	\$4.55		1,976	kWh	\$9.19	\$9.19	\$9.19
kWH Tax- Level 2											
kWH Tax- Level 3											
Total Electric		-	\$107.56	\$112.28	\$96.90				\$202.29	\$211.83	\$180.75
			<i><b></b></i>	¥11====	<i>\\</i>				<i> </i>	<i> </i>	<b></b>
Water	6	CCF	\$42.27	\$41.37	\$39.57		11	CCF	\$68.02	\$66.37	\$63.07
Sewer (w/Stm.Sew. & Lat.)	6	CCF	\$70.89	\$64.63	\$54.58		11	CCF	\$98.89	\$90.08	\$76.78
Storm Water (Rate/ERU)			\$9.50	\$9.50	\$9.50				\$9.50	\$9.50	\$9.50
Refuse (Rate/Service)			\$18.00	\$18.00	\$18.00				\$18.00	\$18.00	\$18.00
		-				_					
Sub-Other Services			\$140.66	\$133.50	\$121.65				\$194.41	\$183.95	\$167.35
Total Billing - All Services		-	\$248.22	\$245.78	\$218.55				\$396.70	\$395.78	\$348.10
Verification Totals->			\$248.22	\$245.78	\$218.55				\$396.70	\$395.78	\$348.10
				Cr.Mo to Pr.Mo	Cr.Yr to Pr.Yr					Cr.Mo to Pr.Mo	Cr.Yr to Pr.Yr
Dollar Chg.to Prior Periods				\$2.44	\$29.67					\$0.92	\$48.60
% Inc/Dec(-) to Prior Periods				0.99%	13.58%					0.23%	13.96%
	====	=====	======	=========			====	=====			
Cost/kWH - Electric	978	kWh	\$0.10998	\$0.11481	\$0.09908		1,976	kWh	\$0.10237	\$0.10720	\$0.09147
% Inc/Dec(-) to Prior Periods				-4.21%	11.00%					-4.51%	11.92%
Cost/CCE_Water	6	005	<b>Φ7 04500</b>	¢c 00500	¢6 50500		11	005	¢c 10004	¢C 00004	<b>ΦΕ 70004</b>
Cost/CCF - Water	6	CCF GAL	\$7.04500	\$6.89500	\$6.59500 \$0.00882		11 8,229	CCF GAL	\$6.18364 \$0.00827	\$6.03364	\$5.73364 \$0.00766
Cost/GALLONS - Water	4,488	GAL	\$0.00942	\$0.00922			0,229	GAL	\$0.00827	\$0.00807	
% Inc/Dec(-) to Prior Periods				2.18%	6.82%					2.49%	7.85%
Cost/CCF - Sewer	6	CCF	\$11.81500	\$10.77167	\$9.09667		11	CCF	\$8.99000	\$8.18909	\$6.98000
Cost/GALLON - Sewer	4,488	GAL	\$0.01580	\$0.01440	\$0.01216		8,229	GAL	\$0.01202	\$0.01095	\$0.00933
% Inc/Dec(-) to Prior Periods	-			9.69%	29.88%					9.78%	28.80%
(Listed Associate Associate CAME LICA)	OF for LIA!	Land Mate		Dilling Derista		_					
(Listed Accounts Assume SAME USA)	at for KVVF	<u>ano vvate</u>	r (UUF) for All E	<u>siiiing Perioas)</u>							

#### RATE REVIEW COMPARISONS - Current to Prior Month and Prior Year

2016 NOVEMBER - ELECTRIC											
Rate Comparisons to Prior Month a											
•			Current	Prior Month	Prior Year				Current	Prior Month	Prior Year
	Service	Service	November	October	November		Service	Service	November	October	November
Customer Type	<u>Usage</u>	<u>Units</u>	2016 Rate	2016 Rate	2015 Rate		<u>Usage</u>	<u>Units</u>	2016 Rate	2016 Rate	2015 Rate
<u>Customer Type -&gt;</u>	<u>C(</u>	<u> DMMERC</u>	IAL USER -	(3 Phase w/De			<u>//</u>	IDUSTRI,	<u> AL USER - (</u>	<u>3 Phase w/Dei</u>	
Customer Charge			\$18.00	\$18.00	\$18.00				\$100.00	\$100.00	\$100.00
Distribution Energy Charge	7,040	kWh	\$38.02	\$38.02	\$38.02		98,748	Reactive	\$2,303.85	\$2,303.85	\$2,303.85
Distribution Demand Charge		kW/Dmd	\$92.86	\$92.86	\$92.86		1510.1	kW/Dmd	\$8,215.30	\$8,215.30	\$8,215.30
Power Supply Energy Charge	7,040	kWh	\$623.04	\$623.04	\$623.04		866,108	kWh	\$39,165.42	\$39,165.42	\$39,165.42
Power Supply Demand Charge									\$15,296.55	\$15,296.55	\$15,296.55
PSCAF - Monthly Factor	7,040	kWh	\$35.13	\$69.13	-\$41.61				\$4,105.79	\$8,079.93	-\$4,862.77
kWH Tax- Level 1			\$9.66	\$9.66	\$9.66				\$9.66	\$9.66	\$9.66
kWH Tax- Level 2			\$20.80	\$20.80	\$20.80				\$56.24	\$56.24	\$56.24
kWH Tax- Level 3									\$3,087.71	\$3,087.71	\$3,087.71
		-									
Total Electric			\$837.51	\$871.51	\$760.77				\$72,340.52	\$76,314.66	\$63,371.96
Water	25	CCF	\$137.32	\$133.57	\$126.07		300	CCF	\$1,555.51	\$1,555.51	\$1,420.51
Sewer (w/Stm.Sew. & Lat.)	25	CCF	\$178.69	\$162.74	\$138.94		300	CCF	\$1,718.69	\$1,562.49	\$1,359.94
Storm Water (Rate/ERU)			\$9.50	\$9.50	\$9.50				\$330.00	\$330.00	\$330.00
Refuse (Rate/Service)			\$5.00	\$5.00	\$5.00				\$5.00	\$5.00	\$5.00
		-									
Sub-Other Services			\$330.51	\$310.81	\$279.51				\$3,609.20	\$3,453.00	\$3,115.45
		-							<u> </u>		
Total Billing - All Services			\$1,168.02	\$1,182.32	\$1,040.28				\$75,949.72	\$79,767.66	\$66,487.41
Verification Totals->			\$1,168.02	\$1,182.32	\$1,040.28				\$75,949.72	\$79,767.66	\$66,487.41
Dollar Chg.to Prior Periods				<u>Cr.Mo to Pr.Mo</u> -\$14.30	<u>Cr.Yr to Pr.Yr</u> \$127.74					<u>Cr.Mo to Pr.Mo</u> -\$3,817.94	<u>Cr.Yr to Pr.Yr</u> \$9,462.31
% Inc/Dec(-) to Prior Periods				-1.21%	12.28%					-4.79%	14.23%
% Inc/Dec(-) to Filor Ferious				-1.21%	12.20%					-4.79%	14.23%
		=====	= = = = = = = = =			= =	=====	=====	======		
Cost/kWH - Electric	7,040	kWh	\$0.11896	\$0.12379	\$0.10806		866,108	kWh	\$0.08352	\$0.08811	\$0.07317
% Inc/Dec(-) to Prior Periods	.,		<i>\$</i> 0.11000	-3.90%	10.09%				\$0.0000L	-5.21%	14.15%
				0.0078	10.0076					0.2176	14.1076
Cost/CCF - Water	25	CCF	\$5.49280	\$5.34280	\$5.04280		300	CCF	\$5.18503	\$5.18503	\$4.73503
Cost/GALLONS - Water	18,701	GAL	\$0.00734	\$0.00714	\$0.00674		224,415	GAL	\$0.00693	\$0.00693	\$0.00633
% Inc/Dec(-) to Prior Periods		<b>(</b>	<i><i>qc</i>.<i>ccicii</i></i>	2.81%	8.92%		,		<i><i><i>q</i>0.0000</i></i>	0.00%	9.50%
				2.0170	0.0270					0.0070	0.0070
Cost/CCF - Sewer	25	CCF	\$7.14760	\$6.50960	\$5.55760		300	CCF	\$5.72897	\$5.20830	\$4.53313
Cost/GALLON - Sewer	18,701	GAL	\$0.00956	\$0.00870	\$0.00743		224,415	GAL	\$0.00766	\$0.00696	\$0.00606
% Inc/Dec(-) to Prior Periods			<i><i><i>q</i>ccccccccccccc</i></i>	9.80%	28.61%		,		<i><i><i>q</i>ccccccccccccc</i></i>	10.00%	26.38%
				0.0070	_0.0.70						_0.0070
(Listed Accounts Assume SAME USA											

# Electric Department Report October 2016

There were 5 outage/callouts during the month of October. 1 outage was due to an automobile accident at SR 109 & County Road P that snapped an electric pole and took down wires. 1 outage was due to an animal getting into electric wires. 1 callout was by City Hall to turn electric on at various locations. 1 outage was at T379 County Road 15 due to a bad underground primary. 1 outage was at 2453 Glen Arbors Dr. a connection jumper broke while a contractor was working on the line.

# Line Department/Service Truck:

The line crews have been focusing on the Industrial Substation Rebuild. The line crew set a new transformer and pole for a temporary service for a new house on County Road N. They ran new underground wire for the City of Napoleon Service Building that went bad on October 12<sup>th</sup>. The line crew put in new underground electric service at 16917 County Road U. They replaced a pole and underground wire that went bad at T379 County Road 15. They also replaced two poles on County Road 15 north of County Road T.

The service truck continually answers calls from residents and contractors consisting of simple outages, locates and service upgrades.

# **Substation Department:**

Todd Wachtman and Nikk Hogrefe have been focusing on upgrades to the Industrial Substation converting from underground service to overhead service.

# **Forestry Department:**

Jamie Howe and Jerry Courtney have working to clear lines on Ohio St. and Clairmont Ave. before they cause outage problems.

# Storeroom/Inventory/Metering Department:

Shawn Druhot has been reading meters along with purchasing and maintaining inventory control. Shawn has been busy mowing substations & the Service Building.

The **Peak Load** for October 2016 was 22.40 MV occurring on the 6<sup>th</sup> of October at 8:00 p.m. that was a decrease of 7.15 MV compared to September 2016. The Average load was 16.4 MV. This was a decrease of 1.68 MV compared to September 2016.

The Gas turbines and the JV2 and JV5 did not run in October.

The **Solar Field** produced 426.45 MWh in October, 2016 compared to 389.83 MWh in October 2015. This was an increase of 36.61 MWh. The Solar Field Peak for October 2016 was 3.64 MW compared to 3.55 MW in October 2015. This was an increase of .09 MW.

11/9/16 KM

# City of Napoleon, Ohio



SUMMARY OF OCTOBER 2016 OUTAGE/STANDBY CALL-OUTS

### October 1, 2016:

Electric personnel were dispatched at 10:00 p.m. to SR 109 & County Road P due to a power outage. The outage lasted three hours and affected one customer. The outage was due to an accident that snapped an electric pole and took down wires. The personnel reset a thirty foot electric pole and ran new wire.

### October 7, 2016:

Electric personnel were dispatched at 6:13 p.m. to N607 County Road 15C due to a power outage. The outage lasted one hour and affected one customer. The outage was due to an animal getting into the power lines and blowing a fuse. The personnel replaced the fuse.

#### October 11, 2016:

One employee was dispatched by the City Building at 3:30 p.m. to turn on electric at various locations.

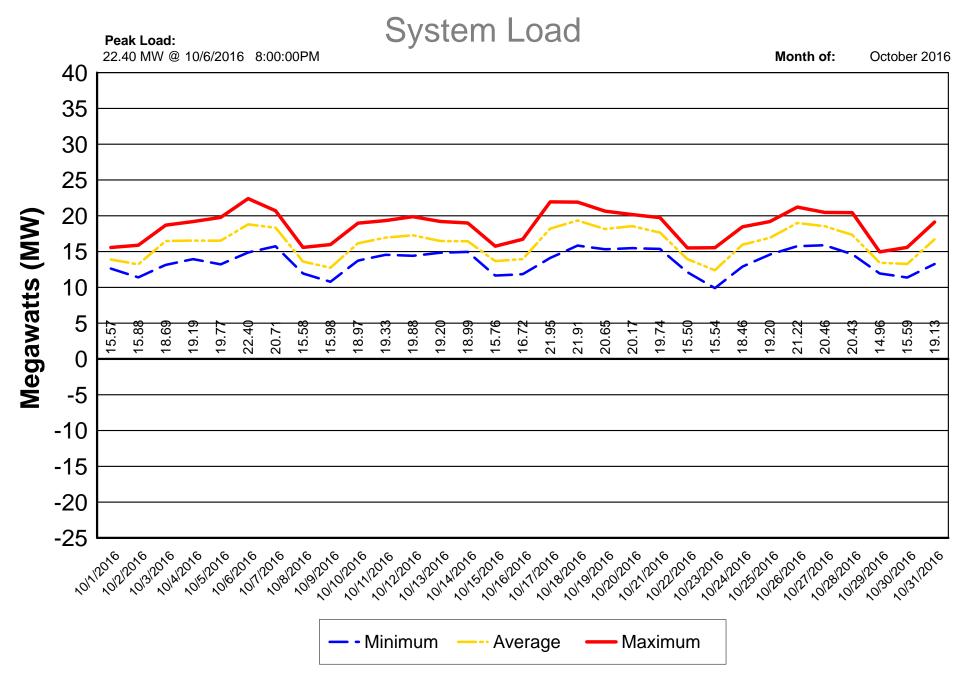
#### October 16, 2016:

Electric personnel were dispatched at 2:14 a.m. to T379 County Road 15 due to a power outage. The outage lasted one hour and affected one customer. The outage was due to a bad underground primary. The personnel put the fuse back in and did a temporary fix.

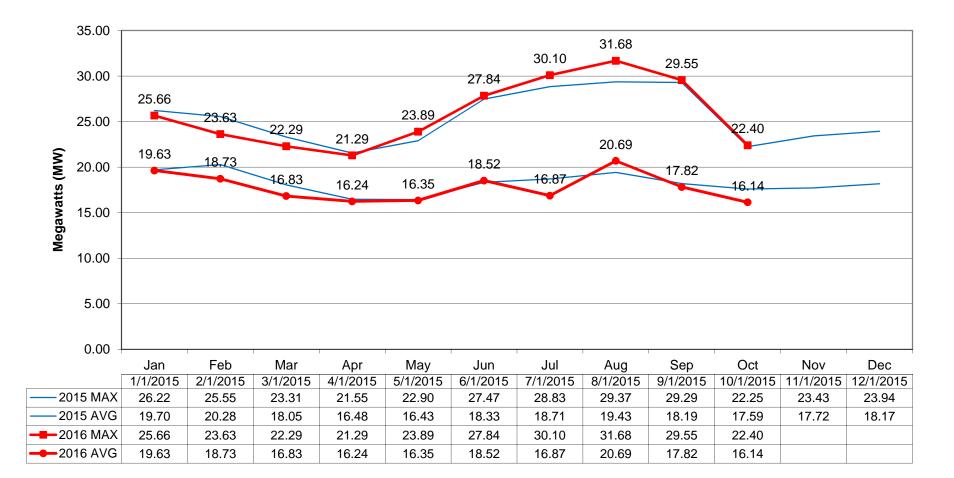
#### October 28, 2016:

Electric personnel were dispatched at 4:30 p.m. to 2453 Glen Arbors Dr. due to a power outage. The outage lasted thirty minutes and affected seventy five customers. The outage was due to a contractor that cut an open phase. The contractor reconnected the phase.

# **Napoleon Power & Light**



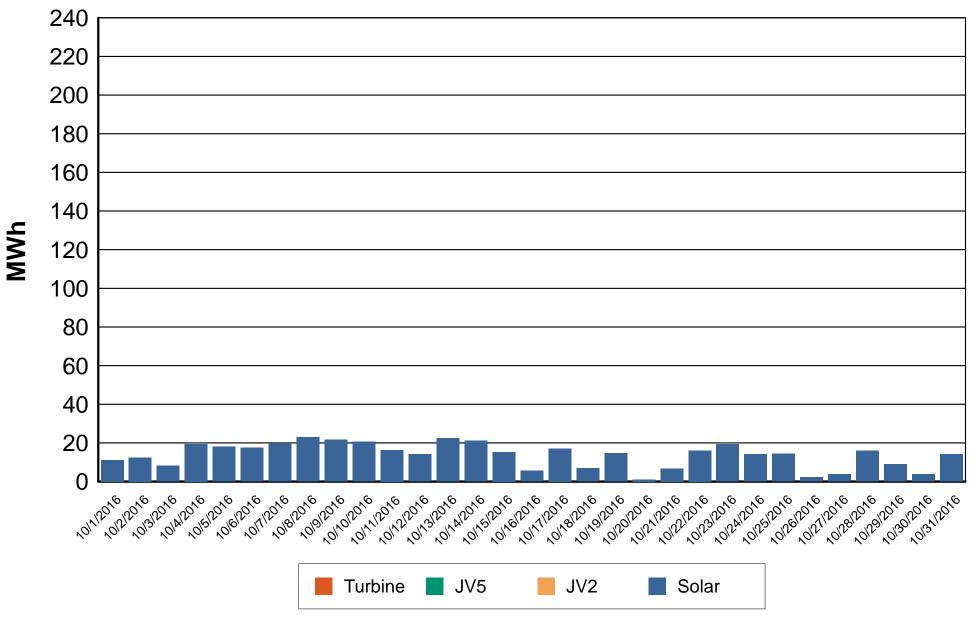
# **NAPOLEON POWER & LIGHT**



# **Napoleon Power & Light**

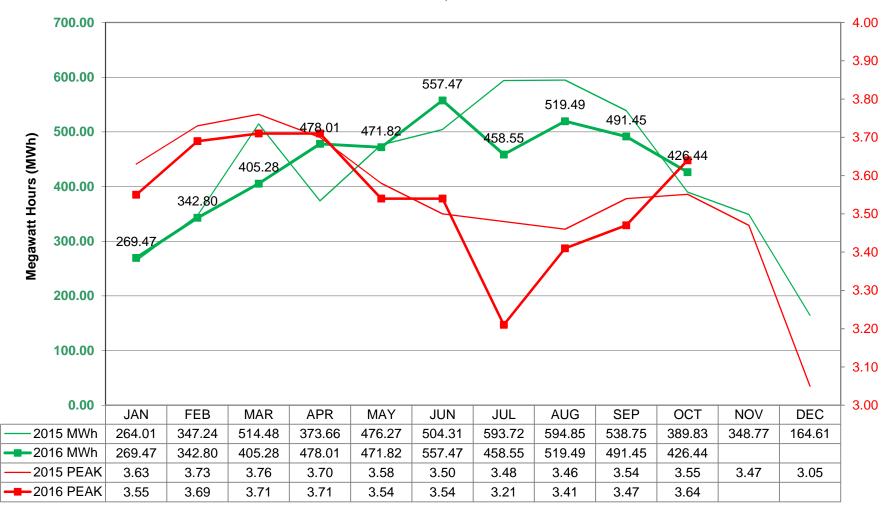
**Daily Generation Output** 

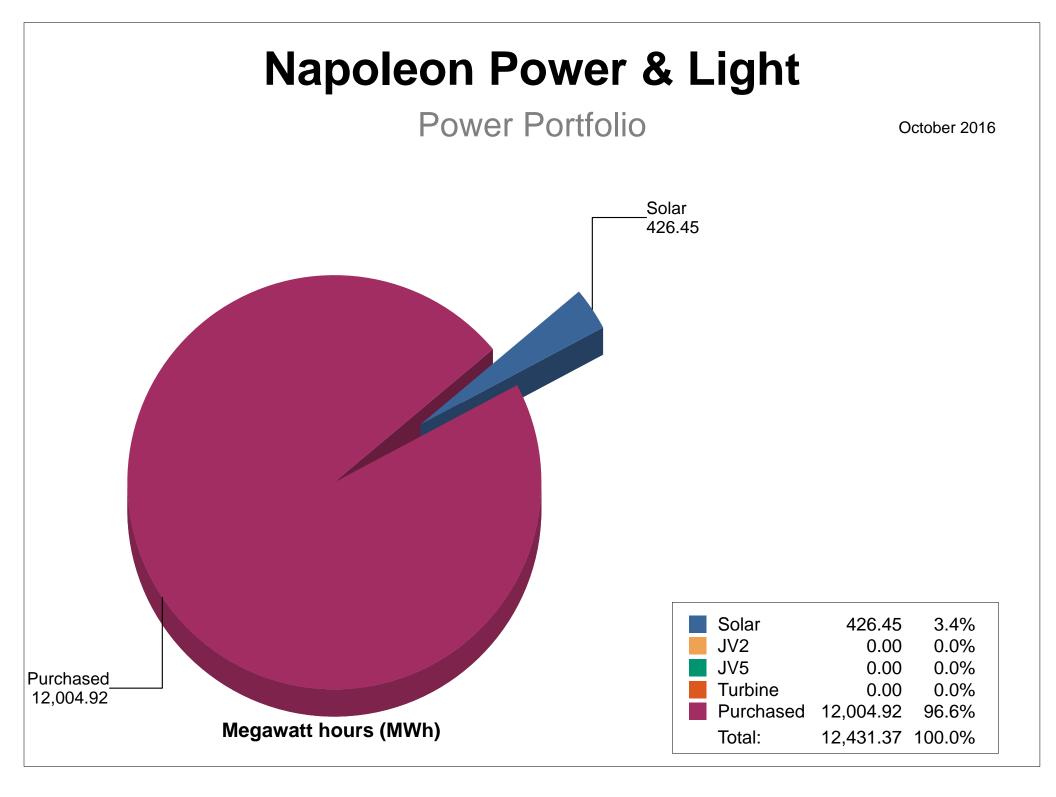
October 2016



# **NAPOLEON POWER & LIGHT**

Solar Field Output Trend





# City of Napoleon, Ohio BOARD OF PUBLIC AFFAIRS (BOPA) Meeting Agenda Monday, November 14, 2016 at 6:30 pm

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1. Approval of the Minutes from October 10, 2016 (In the absence of any objections or corrections, the Minutes shall stand approved)
- Review/Approval of the Power Supply Cost Adjustment Factor for November, 2016: PSCAF three (3) month averaged factor-\$0.00499 (Prior PSCAF October 2016 factor-\$0.00982) JV2: \$0.101015 JV5: \$0.101015
- 3. Electric Department Report.
- 4. Review of Water Rates Related to Water Plant Upgrade Project.
- 5. Review of Sewer Revenue Fund Cost of Service and Rate Review
- 6. Any other matters to come before the Board.
- 7. Adjournment

Gregory J. Heath Finance Director/Clerk of Council

## CITY OF NAPOLEON, OHIO

# **BOARD OF PUBLIC AFFAIRS MEETING MINUTES**

Monday, October 10, 2016 at 6:30 pm

	I
PRESENT	
Members	Mike DeWit-Chair, Dr. David Cordes, Nick Frysinger
Electric Committee	Travis Sheaffer-Chair (arrived at 6:34 pm), Patrick McColley, Dan Bae
City Staff	Jason Maassel, Mayor
	Greg Heath, Finance Director/Clerk of Council
	Monica Irelan, City Manager
	Dennis Clapp, Electric Distribution Superintendent
Recorder	Roxanne Dietrich
Other	Newsmedia
ABSENT	
Call to Order	Chairman DeWit called the meeting to order at 6:30 pm
Approval of Minutes	Minutes of the September 12, 2016 meeting stand approved as read
from August 08, 2016	with no objections or corrections.
Review/Approval of the	The Electric Power Supply Cost Adjustment Factor for October, 2016
Power Supply Cost	was presented for review.
Adjustment Factor for	was presented for review.
October, 2016	
October, 2010	
Motion to Approve	Motion: Frysinger Second: Cordes
Power Supply Cost	To approve the Power Supply Cost Adjustment Factor for October,
Adjustment Factor	2016 as follows:
	PSCAF three (3) month averaged factor: \$0.00982
	JV2: \$0.065472
	JV5: \$0.065472
Discussion	None
Passed	Roll call vote on above motion:
Yea-3	Yea–Frysinger, DeWit, Dr. Cordes
Nay-0	Nay

Electric Department Reports	Dennie Clapp, Electric Distribution Superintendent gave the electric reports from September 2016, a copy of the detailed reports is attached.
	Clapp reported back to the committee on their question if other communities charge a service fee when a service man is sent out and the problem is on the customer side of the meter. He received twenty-four (24) responses, fifteen (15) do not charge and nine (9) do charge, the prices ranged from \$25 to \$700. Those who do not charge responded we want to be a great electric service for our customers and if they have any concern on anything related to electric or electrical wires we want them to call us and we will handle if the problem is ours and tell them what to do if the problem is not ours. We do not want our customers getting into the lines and getting hurt. Clapp said he personally doesn't think we have enough call-ins that would create enough revenue to offset insurance. DeWit said he totally would concur the only time would be if you need some caveat for someone who calls you every day for normal things. Clapp said one of the respondents did have someone that called in all the time and they started to charge them. DeWit said don't know if we need to have a change in the ordinance. Clapp said I don't want people not calling in because they are afraid they will be charged. McColley said it is nice to know we aren't outside of the realm. Clapp said I think we are where we need to be.
Motion to Remove	Motion: Frysinger Second: Dr. Cordes
Review of the Net	Motion to remove Net Metering Policy from the agenda.
Metering Policy	
Passed	Roll call vote on above motion:
Yea-3	Yea-Frysinger, DeWit, Dr. Cordes
Nay-0	Nay-
Review of Water Plant	Rob Shoaf of AECOM, project manager on the Water Treatment Plant
Upgrade Project and	upgrade project gave a presentation.
Estimated Cost	Existing Plant Shoaf said the plant has pumps that use lime softening and MIEX to
	soften the water. There are some issues with organics in the water and
	other potential things that are in the river, algal toxins have driven a lot
	of the EPA guidelines, algal toxins happened here last year.
	Existing Plant Problems A lot of the equipment is fifty (50) years or older, the lime slakers are
	older than the plant. Chlorine gas in cylinders is currently being used
	the conversion to sodium hypo-chloride was recently added for the
	Page 2 of 10

operators safety and is a much safer alternative. DeWit asked that was in the original scope of work. Shoaf said he was not sure.

DeWit said it was my understanding we were going to get rid of the chlorine system.

Shoaf said some of the things we added are:

Upgraded Raw Water Intake with variable frequency drives and some control valves that will give better flexibility to operate the plant especially for the way we are trying to treat water with membranes, which is better for the city and way have to serve Wauseon. The Miex process is being modified/upgraded to powder activated carbon feeds that are required. Added significant PAC improvements for algal toxin concerns. The gravity filters are being replaced, the valves are fifty (50) years or older, we are keeping most of the pipe but are replacing the valves that will be turned a lot, these are expensive to replace. A membrane softening building will also remove hardness and nasties from the Maumee River. UV disinfection is required by the OhioEPA Findings and Orders, it is an extra layer of protection from cryptosporidium. Cordes said so it is a bigger problem here than we were recognizing before. Shoaf replied it could be, just because it is in the raw water does not mean it is in the finished water. The high service pumps that pump water out to system are being

replaced now with the UV Disinfection project at a cost of \$50,000 each.

We are putting in reverse osmosis to replace MIEX and lime, the MIEX equipment is costly and doesn't do that great of a job so we are repurposing that equipment for pretreatment and the RO membranes, that can remove nitrates and atrazine, will be in a separate building. The ultraviolet disinfection project is slightly behind schedule it is currently being constructed and should be fully online by Christmas. Architectural concept is split face block that will complement the other building.

In April 2011 the estimate was \$13.6 million by another firm. We used the ENR cost index and with inflation that would be \$15.7 million today. The project is up to about \$17.1 million which includes engineering and the UV project that is about \$1.4 million. Actual construction I think is just under \$16 million. Other costs in the project are the Vocke Street storage tank that has not been started and other previous planning costs.

DeWit asked that are in the \$17.1

Shoaf replied not all of that is

DeWit said you do not have standard capital in yet from the old project and what is the Vocke elevated storage tank?

Irelan said that is the water tower. Page 3 of 10 Shoaf replied that is a cost we are also looking into.

DeWit asked to paint it?

Irelan said right, that it is not in the \$17.1 million.

DeWit replied we still have to do it but is not included in the \$17.1 million. We need the big water tower painted do we need the small water painted?

Irelan said not that.

Shoaf said the City has achieved an OhioEPA \$2.9 million grant with low interest rates. Eligible costs can be refinanced with this money at a loan rate of 0.9% for thirty (30) years.

DeWit said so the \$2.9 million is real money?

Shoaf said principal forgiveness we have to accept the \$2.9 million. Sheaffer commented there were a lot of hoops to jump through to get the \$2.9 million, Council and the Mayor had to take eight (8) hours of online training just to qualify.

DeWit asked what has to be done to lock that in.

Irelan said we are in that process now, will lock it in when bid the project at whatever the cost of construction is.

DeWit replied you don't have to wait until it is done, my concern is the longer we wait more opportunity you have for something to go wrong the faster we can get rate locked in.

Irelan said we will lock it in in December the rate does change monthto-month so will depend on what the rate is for that month at what rate we will have.

Shoaf said in summary your water quality will be improving DeWit asked what is it going to do to the taste, if you are looking to make people happy about a rate increase would be helpful if the water tastes better.

Shoaf said I cannot make that promise the best tasting water is the water you are used to.

Cordes asked if will have chlorine smell.

Shoaf said not using chlorine gas are using sodium hypochlorite, as far as taste I cannot promise the water will taste better or worse. The satellites will notice better quality as they will not have degradation. DeWit asked if will reduce Liberty Center's problem you are not only killing the stuff, you are getting it out.

Shoaf said the plant will remove over 90%-95% of natural occurring organics so will have less in finished water.

DeWit said you cannot say how perfect it will be as you don't know how long that water will stay in the pipes.

Cordes asked the UV has been mandated by EPA.

Shoaf replied the treatment technique has been mandated, there are different ways UV is the easiest way.

Cordes asked this is a new system being put in was there a lot of Page 4 of 10 expense adding the UV.

Shoaf said the UV equipment cost about \$200,000 to me that is not a lot on a project.

Cordes asked if the UV equipment will last roughly thirty (30) years. Shoaf responded the UV equipment may last that long but the bulbs have a five (5) or eight (8) year lifespan but they can be replaced, you do scheduled maintenance same as you will have to do with the membranes that have a five (5) to seven (7) year life. This is something that will have to be budgeted a replacement fund every year. The power costs are higher on the membrane side.

DeWit asked you keep one set of operating spares.

Shoaf said you don't need to keep spares the bulbs don't go out at once like light bulbs do.

A more efficient heating and cooling system will be put in, right now you are using electric boilers to heat the building. Are putting in a partial demafication in putting where filters are to keep humidity above the filters and will be easier to keep the rest of the plant dry. UV project underway, date for required treatment was October 1<sup>st</sup>; however that was missed and you will be receiving a treatment plan approval violation letter since the required deadline of October 1 was missed, this is not a treatment technique violation this is just hand slap that we did not meet the date we said we would have something done and that is still being constructed.

DeWit asked a slap meaning just a letter we will not get fined. Shoaf answered I do not believe you will get fined.

We are a few weeks away from getting EPA approval, there will be a public hearing at the end of this month on the NPDES permit, after thirty (30) day if there are comments we should be good to go, hope to bid in December.

DeWit asked what does the EPA approve, process flow diagram or look at engineering drawings.

Shoaf responded they look at way too much we have 150 drawings now do not look at electrical drawings except the generator, structural. We applied for the Permit to Install we will then have permission to install these plants. Hope to be able to advertise project before Christmas, project construction will not start until early spring. Startup of plant maybe in October of 2018 does not mean all is done just startup the second phase of construction up and running in full construction completion in April of 2019 or so.

Shoaf said we are leaving the MIEX operational until everything is built. The reverse osmosis membrane building will be the first one built and the filters will be taken down one at a time (there are four). While we are a little bit behind schedule could not have obtained funding and be any quicker than we are now.

	DeWit said as long as we are not getting fined. Shoaf said the only gigantic fine is the cost of this project, which is stranded capital.
Review of Water Rates Related to Water Plant Upgrade Project	
	in 2019 is \$643,219. Total revenue requirements for 2017 \$3,347,689 and almost \$4.2 million for 2019 primarily due to debt service that kicks in. The last step is to determine overall revenue adjustment that would be needed, these are not cumulative increases these are what the revenues would need to be increased above any current rate to meet revenue requirements in 2017 rates would need to be increased by 8% overall, in 2018 would need a 10% increase and the big one in 2019 is a 34% increase.

Page 6 of 10

Irelan said in comparison to this year's current rates over the next three years total would be 34% from today's rates.

Cordes asked not each year individually compared to this year. Courtney said the conclusion is your revenues are not sufficient to meet revenue requirements but more importantly primarily due to inflation of the projected debt service cost you would need to raise current revenues by 34% in order to get to where need to be in 2019. Frysinger said so we have three (3) years to get to that point with rate increases not as dramatic as you think since have three (3) years to get there.

Courtney said if you raise revenues 10% a year over the next three (3) years would get you just under 34%.

Cordes asked 34% of the water costs.

Courtney answered 34% of current revenue, just water. DeWit asked what does that do with the numbers out to the satellites will those be upside down.

Irelan said the original analysis was \$16.5 million at 3% over 30 years. DeWit asked didn't we project 3.8 or some rate, we aren't going to be in trouble with the rate, won't end up with firm numbers that we gave them.

Irelan said when they chose not to sign the contract by October 15 of last year none of those are now relevant.

DeWit asked do we know 100% know that they don't think those are still active.

Ireland said it is not relevant anymore because they did not sign the contract.

DeWit said had offer to sale

Ireland said October 2015 is when that portion disappeared.

Comadoll said the only people we are really working with yet is Florida. Irelan said I don't understand the question we are working with all the satellite customers.

Comadoll asked don't we have something special going with Florida? Irelan said all of those have been expired.

DeWit asked when are we going to have to make a decision on what to do with stranded capital if they leave.

Irelan responded that is currently under negotiations.

Heath said that is included in the cost of service study. The current contract with the satellites they are paying 25% over our current inside residential rates, as our rates move theirs will too.

DeWit said they also get reduced because of volume.

Irelan said because of declining volume.

Courtney said their average revenue isn't much different than your industrial clients.

Page 7 of 10

For the cost of service, we take the revenue requirements and allocate them to each class to compare revenues and current rates to get cost of service results. The highest cost is base cost that is up 61% from the last study and extra capacity costs are about 29% and your customer service related costs are about 10%. Base cost for 2019 the first year debt service kicks in, will be \$5.10 per ccf; extra capacity cost at \$419.00 per 100 ccf/day, customer costs-meter and services costs are about \$8.20 per month and billing collections costs are about \$1.04 per bill. Cost of service is broke down by class, what you would need adjust current rates to meet the cost of service for each class residential class should go up by about 32%, commercial by about 25%, industrial by 31% and wholesale by 48%.

### Conclusion and Recommendation

The wholesale class is being subsidized by other classes, your base cost of service is greater than the tale block rate, recommend future rate adjustments should move toward the cost of service results. Tale block rate is the lowest rate for inside customers it is \$3.75, the base cost is \$5.10.

Cordes asked if the new water treatment plant is it to be less expensive to operate since not using lime sodium, will it be more cost effective to run? Irelan replied it will be a little less cost on operation side maybe \$100,000/year, the plant will not be in full service until 2019. Looking at the current rates - Inside Usage charge \$5.20 for first 1,000 ccf next 24,000 ccf at \$4.95 and everything over 25,000 is at \$3.75 ccf. Rates are per 100 ccf. Customer charges are based on meter size for 1" or less it is \$11.07, there are various meter sizes stopped at 3" last time, there is a higher capacity charge for larger sized meter. Outside rates are roughly 50% higher than inside rates the wholesale customers pay inside rates + 25% additional charge.

Conclusion tale block rate substantially lower than the base cost of service and we would suggest that your future rate adjustments be reflected in commodity charge to move closer to that base cost of service reflecting 10% for three (3) years and we would recommend before you get to the third year you will need to take another look at this, at least from revenue requirement standpoint. To raise revenues overall 34% by 2019 should focus increase on commodity charge and review rates annually.

Heath asked in going back to inside rates is the tale block rate direct or indirect suggestion to raise that rate within that schedule? Courtney said we would suggest raise all of the commodity rates. Heath said raise to 10% - 15%?

Courtney responded we have not got that far, looking for feedback on your general feeling on raising revenues.

DeWit said basically we are selling a portion of our water at a loss. Courtney said not a loss but below your cost of service, keep in mind you do get a capacity cost as well on top of that charge, if you have a 6" meter you are paying \$1,000 /month on top of his water usage. To get where you need to be I would suggest you raise all commodity rates proportionally. If you raise capacity charges you will know that is revenue you receive and understand that if the customer uses less they will still get capacity charges, but capacity charges have been above that cost of service for some time and to get things back in balance and be able to come up rates that move you toward the revenue distribution need to focus more on increase on the commodity side. DeWit asked if there is an increase in the commodity side how will that affect the satellites.

Courtney said that will depend on how you implement it will start to move them more in line with cost of service results do increase all on capacity side will not move you towards costs of service for that class there is not much revenue from them if don't increase commodity charge.

DeWit said like at different cost inside vs outside even though higher rate declining balance drops back down.

Heath said you have to take into consideration all proposed rate increases are in commodity and we probably will see a decrease in usage and could impact your inside industrial heavily.

DeWit said we have to do something your cost of service is going up. Irelan asked the committee and board are you comfortable doing a 10% increase over the next few years or do you want to move more towards problem areas to get closer to base cost it is the same problem we had a few years ago our inside rates are subsidizing the wholesale customers.

DeWit said you have to rectify your base costs so they are more equitable and don't have that big of a difference in your cost and where you are at.

Irelan stated that impacts the third tier we are also impacting our larger industrial customers and the middle tier would be our commercial.

DeWit asked can we look at it that way and see what happens. Sheaffer said we can look at one and have two (2) examples one that fixes the problems and then the other maybe have meeting between. DeWit from satellite standpoint not going to sell water at a loss are you?

Irelan said we are not selling at a loss might be more capacity than commodity right now to bring back to levelized cost in 2019. Will probably have to pretty much leave capacity alone and make adjustment on commodity side. Adding water meter sizes helped Page 9 of 10

	levelize that out a little bit we aren't there yet. DeWit said want to make sure we don't set rates where we lose money it is one thing to lose money to inside corporation, that is supplying us with jobs, income tax and all other things. Cordes said can you share costs that would benefit everyone equally.			
Motion to Adjourn BOPA Meeting	Motion: Frysinger Second: Dr. Cordes To adjourn the Board of Public Affairs Meeting at 8:22 pm			
Passed Yea-3 Nay-0	Roll call on above motion: Yea - Frysinger, DeWit, Dr. Cordes Nay-			
Date Approved				
November 14, 2016				
Mike DeWit, Chair				

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### City of Napoleon, Ohio

## WATER, SEWER, REFUSE, RECYCLING & LITTER COMMITTEE Meeting Agenda

## Monday, November 14, 2016 at 7:00 pm

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1) Approval of the October 10, 2016 Minutes (In the absence of any objections or corrections, the Minutes shall stand approved)
- 2) Review of Water Rates Related to Water Plant Upgrade Project
- 3) Review of Sewer Revenue Fund Cost of Service and Rate Review
- 4) Any other matters currently assigned to the Committee
- 5) Adjournment

Gregory J. Heath, Finance Director/Clerk of Council

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### CITY OF NAPOLEON, OHIO

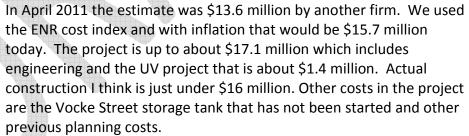
# WATER/SEWER COMMITTEE

## MEETING MINUTES Monday, October 10, 2016 at 7:00 pm

PRESENT				
Members	Jeff Comadoll, Chair; Travis Sheaffer; Rita Small			
Board of Public Affairs	Greg Heath, Finance Director/Clerk of Council			
City Staff	Monica Irelan, City Manager			
	Trevor Hayberger, Interim City Law Director			
	Chad Lulfs, Director of Public Works			
	Scott Hoover, WTP Superintendent			
	Mayor Jason Maassel			
	Councilman Patrick McColley			
Recorder	Roxanne Dietrich			
Others	Newsmedia			
	John Courtney and Scott Wieging - Courtney and Associates			
	Jerry Rohrs-Village of Malinta			
	Marv Arps-Henry County Regional Water Sewer District			
ABSENT	warv rips hemy county regional water sewer bistnet			
Call to Order	Chairman Comadoll called the meeting to order at 7:00 pm.			
Approval of Minutes	Minutes of the August 8, 2016 meeting stand approved as read with no			
from August 08, 2016	objections or corrections.			
<b>Review of Water Plant</b>	Rob Shoaf of AECOM, project manager on the Water Treatment Plant			
Upgrade Project and	upgrade project gave a presentation.			
Estimated Cost <u>Existing Plant</u>				
	Shoaf said the plant has pumps that use lime softening and MIEX to			
	soften the water. There are some issues with organics in the water and			
	other potential things that are in the river, algal toxins have driven a lot			
	of the EPA guidelines, algal toxins happened here last year.			
	Existing Plant Problems			
	A lot of the equipment is fifty (50) years or older, the lime slakers are			
	older than the plant. Chlorine gas in cylinders is currently being used			
	the conversion to sodium hypo-chloride was recently added for the			
	operators safety and is a much safer alternative.			
	DeWit asked that was in the original scope of work.			
	Shoaf said he was not sure.			
	DeWit said it was my understanding we were going to get rid of the			
	chlorine system.			
	Shoaf said some of the things we added are:			

Upgraded Raw Water Intake with variable frequency drives and some control valves that will give better flexibility to operate the plant especially for the way we are trying to treat water with membranes, which is better for the city and way have to serve Wauseon. The Miex process is being modified/upgraded to powder activated carbon feeds that are required. Added significant PAC improvements for algal toxin concerns. The gravity filters are being replaced, the valves are fifty (50) years or older, we are keeping most of the pipe but are replacing the valves that will be turned a lot, these are expensive to replace. A membrane softening building will also remove hardness and nasties from the Maumee River. UV disinfection is required by the OhioEPA Findings and Orders, it is an extra layer of protection from cryptosporidium. Cordes said so it is a bigger problem here than we were recognizing before. Shoaf replied it could be, just because it is in the raw water does not mean it is in the finished water. The high service pumps that pump water out to system are being replaced now with the UV Disinfection project at a cost of \$50,000 each.

We are putting in reverse osmosis to replace MIEX and lime, the MIEX equipment is costly and doesn't do that great of a job so we are repurposing that equipment for pretreatment and the RO membranes, that can remove nitrates and atrazine, will be in a separate building. The ultraviolet disinfection project is slightly behind schedule it is currently being constructed and should be fully online by Christmas. Architectural concept is split face block that will complement the other building.



DeWit asked that are in the \$17.1

Shoaf replied not all of that is

DeWit said you do not have standard capital in yet from the old project and what is the Vocke elevated storage tank?

Irelan said that is the water tower.

Shoaf replied that is a cost we are also looking into.

DeWit asked to paint it?

Irelan said right, that it is not in the \$17.1 million.

DeWit replied we still have to do it but is not included in the \$17.1 million. We need the big water tower painted do we need the small water painted?

Irelan said not that.

Shoaf said the City has achieved an OhioEPA \$2.9 million grant with low interest rates. Eligible costs can be refinanced with this money at a loan rate of 0.9% for thirty (30) years.

DeWit said so the \$2.9 million is real money?

Shoaf said principal forgiveness we have to accept the \$2.9 million. Sheaffer commented there were a lot of hoops to jump through to get the \$2.9 million, Council and the Mayor had to take eight (8) hours of online training just to qualify.

DeWit asked what has to be done to lock that in.

Irelan said we are in that process now, will lock it in when bid the project at whatever the cost of construction is.

DeWit replied you don't have to wait until it is done, my concern is the longer we wait more opportunity you have for something to go wrong the faster we can get rate locked in.

Irelan said we will lock it in in December the rate does change monthto-month so will depend on what the rate is for that month at what rate we will have.

Shoaf said in summary your water quality will be improving DeWit asked what is it going to do to the taste, if you are looking to make people happy about a rate increase would be helpful if the water tastes better.

Shoaf said I cannot make that promise the best tasting water is the water you are used to.

Cordes asked if will have chlorine smell.

Shoaf said not using chlorine gas are using sodium hypochlorite, as far as taste I cannot promise the water will taste better or worse. The satellites will notice better quality as they will not have degradation. DeWit asked if will reduce Liberty Center's problem you are not only

killing the stuff, you are getting it out.

Shoaf said the plant will remove over 90%-95% of natural occurring organics so will have less in finished water.

DeWit said you cannot say how perfect it will be as you don't know how long that water will stay in the pipes.

Cordes asked the UV has been mandated by EPA.

Shoaf replied the treatment technique has been mandated, there are different ways UV is the easiest way.

Cordes asked this is a new system being put in was there a lot of expense adding the UV.

Shoaf said the UV equipment cost about \$200,000 to me that is not a lot on a project.

Cordes asked if the UV equipment will last roughly thirty (30) years. Shoaf responded the UV equipment may last that long but the bulbs have a five (5) or eight (8) year lifespan but they can be replaced, you Page 3 of 9 do scheduled maintenance same as you will have to do with the membranes that have a five (5) to seven (7) year life. This is something that will have to be budgeted a replacement fund every year. The power costs are higher on the membrane side.

DeWit asked you keep one set of operating spares.

Shoaf said you don't need to keep spares the bulbs don't go out at once like light bulbs do.

A more efficient heating and cooling system will be put in, right now you are using electric boilers to heat the building. Are putting in a partial demafication in putting where filters are to keep humidity above the filters and will be easier to keep the rest of the plant dry. UV project underway, date for required treatment was October 1<sup>st</sup>; however that was missed and you will be receiving a treatment plan approval violation letter since the required deadline of October 1 was missed, this is not a treatment technique violation this is just hand slap that we did not meet the date we said we would have something done and that is still being constructed.

DeWit asked a slap meaning just a letter we will not get fined. Shoaf answered I do not believe you will get fined.

We are a few weeks away from getting EPA approval, there will be a public hearing at the end of this month on the NPDES permit, after thirty (30) day if there are comments we should be good to go, hope to bid in December.

DeWit asked what does the EPA approve, process flow diagram or look at engineering drawings.

Shoaf responded they look at way too much we have 150 drawings now do not look at electrical drawings except the generator, structural. We applied for the Permit to Install we will then have permission to install these plants. Hope to be able to advertise project before Christmas, project construction will not start until early spring. Startup of plant maybe in October of 2018 does not mean all is done just startup the second phase of construction up and running in full construction completion in April of 2019 or so.

Shoaf said we are leaving the MIEX operational until everything is built. The reverse osmosis membrane building will be the first one built and the filters will be taken down one at a time (there are four). While we are a little bit behind schedule could not have obtained funding and be any quicker than we are now.

DeWit said as long as we are not getting fined.

Shoaf said the only gigantic fine is the cost of this project, which is stranded capital.

Page 4 of 9

## Review of Water Rates Related to Water Plant Upgrade Project

John Courtney from Courtney and Associates updated the cost of service study as was asked since the city is facing major capital improvements at the water treatment plant and trying to get a handle on how this will affect the rates and to get a game plan where you need to get to. We projected revenue requirements and what is it going to take to operate in the future and determine an overall adjustment that will be needed to meet those projected revenue requirements. What we have found is residential water sales have continued to decline, people are actually using less water with higher efficiency appliances there has been a 10% drop since 2011. Commercial sales anticipated a drop due to the loss of Buckeye Laundromat, you did pick up some sales when the county picked up McClure, there was a little bit of offset did see overall drop in sales. Growth rates assumed zero growth. At some point we think declining water sales will stop at least on the residential side. Projected water sales for 2017, 2018 and 2019 is just shy of 500,000 ccf.

Project Revenues at current rates, the last increase just took affect earlier this year modeled current rates into our projections. Residential rate is just shy of \$8/ccf; Commercial is over \$6/ccf; Industrial is at \$4.77/ccf and Wholesale at \$4.97/ccf. DeWit asked your projected sales included the satellites. Courtney responded we did not assume any change, we used 2015

sales.

Irelan said by contract the minimum are thru 2020 this cost of service study is based on 2017, 2018 and 2019.

The projected overall revenue with current rates is just over \$3.1 million. Residential by dollar and sales is the largest class you serve. What we projected in revenue requirements, other operating expenses, shared expenses and debt service for the WTP rehab starting in 2019 is \$643,219. Total revenue requirements for 2017 \$3,347,689 and almost \$4.2 million for 2019 primarily due to debt service that kicks in. The last step is to determine overall revenue adjustment that would be needed, these are not cumulative increases these are what the revenues would need to be increased above any current rate to meet revenue requirements in 2017 rates would need to be increased by 8% overall, in 2018 would need a 10% increase and the big one in 2019 is a 34% increase.

Irelan said in comparison to this year's current rates over the next three years total would be 34% from today's rates.

Cordes asked not each year individually compared to this year. Courtney said the conclusion is your revenues are not sufficient to meet revenue requirements but more importantly primarily due to inflation of the projected debt service cost you would need to raise Page 5 of 9 current revenues by 34% in order to get to where need to be in 2019. Frysinger said so we have three (3) years to get to that point with rate increases not as dramatic as you think since have three (3) years to get there.

Courtney said if you raise revenues 10% a year over the next three (3) years would get you just under 34%.

Cordes asked 34% of the water costs.

Courtney answered 34% of current revenue, just water. DeWit asked what does that do with the numbers out to the satellites will those be upside down.

Irelan said the original analysis was \$16.5 million at 3% over 30 years. DeWit asked didn't we project 3.8 or some rate, we aren't going to be in trouble with the rate, won't end up with firm numbers that we gave them.

Irelan said when they chose not to sign the contract by October 15 of last year none of those are now relevant.

DeWit asked do we know 100% that they don't think those are still active.

Ireland said it is not relevant anymore because they did not sign the contract.

DeWit said had offer to sale

Ireland said October 2015 is when that portion disappeared.

Comadoll said the only people we are really working with yet is Florida. Irelan said I don't understand the question we are working with all the satellite customers.

Comadoll asked don't we have something special going with Florida? Irelan said all of those have been expired.

DeWit asked when are we going to have to make a decision on what to do with stranded capital if they leave.

Irelan responded that is currently under negotiations.

Heath said that is included in the cost of service study. The current contract with the satellites they are paying 25% over our current inside residential rates, as our rates move theirs will too.

DeWit said they also get reduced because of volume.

Irelan said because of declining volume.

Courtney said their average revenue isn't much different than your industrial clients.

For the cost of service, we take the revenue requirements and allocate them to each class to compare revenues and current rates to get cost of service results. The highest cost is base cost that is up 61% from the last study and extra capacity costs are about 29% and your customer service related costs are about 10%. Base cost for 2019 the first year debt service kicks in, will be \$5.10 per ccf; extra capacity cost at \$419.00 per 100 ccf/day, customer costs-meter and services costs are Page 6 of 9 about \$8.20 per month and billing collections costs are about \$1.04 per bill. Cost of service is broke down by class, what you would need adjust current rates to meet the cost of service for each class residential class should go up by about 32%, commercial by about 25%, industrial by 31% and wholesale by 48%.

### Conclusion and Recommendation

The wholesale class is being subsidized by other classes, your base cost of service is greater than the tale block rate, recommend future rate adjustments should move toward the cost of service results. Tale block rate is the lowest rate for inside customers it is \$3.75, the base cost is \$5.10.

Cordes asked if the new water treatment plant is it to be less expensive to operate since not using lime sodium, will it be more cost effective to run? Irelan replied it will be a little less cost on operation side maybe \$100,000/year, the plant will not be in full service until 2019. Looking at the current rates - Inside Usage charge \$5.20 for first 1,000 ccf next 24,000 ccf at \$4.95 and everything over 25,000 is at \$3.75 ccf. Rates are per 100 ccf. Customer charges are based on meter size for 1" or less it is \$11.07, there are various meter sizes stopped at 3" last time, there is a higher capacity charge for larger sized meter. Outside rates are roughly 50% higher than inside rates the wholesale

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Cordes said can you share costs that would benefit everyone equally.

Page 8 of 9

Motion to Adjourn Water/Sewer Committee Meeting	Motion: Small Second: Sheaffer To adjourn the Water/Sewer Committee Meeting at 8:22 pm		
Passed Yea-3 Nay-0	Roll call vote on above motion: Yea–Sheaffer, Small Comadoll Nay-		
Date Approved			
November 14, 2016			
Jeff Comadoll, Chair			

## City of Napoleon, Ohio

## **PERSONNEL COMMITTEE**

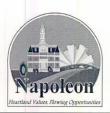
Meeting Agenda Monday, November 14, 2016 at 7:15 pm

LOCATION: Council Chambers, 255 West Riverview Avenue, Napoleon, Ohio

- 1. Approval of the Minutes from October 24, 2016 (In the absence of any objections or corrections, the Minutes shall stand approved)
- 2. Discussion on Hiring a City Manager.
- 3. Adjournment.

negon A. Heath

Gregory J. Heath Finance Director/Clerk of Council



City of Napoleon, Ohio

255 West Riverview Avenue • P. O. Box 151 Napoleon, Ohio 43545-0151 Phone (419) 599-1235 Fax (419)-599-8393 www.napoleonohio.com

# **MEMORANDUM**

TO:	Municipal Properties/ED Committee, City Council, Mayor, City Manager, City Law Director, City Finance Director, Department Supervisors, Newsmedia
FROM:	Gregory J. Heath, Finance Director/Clerk of Council & 74,
DATE:	November 11, 2016
RE:	Municipal Properties/ED Committee Meeting Cancellation

The Municipal Properties & Economic Development Committee meeting regularly scheduled for Monday, November 14, 2016 at 7:30 pm has been CANCELED due to lack of agenda items.

U:\2015\- RECORDS CLERK\2016\Committees\MunicipalProperties Committee\11 14 2016 Municipal Properties\_ED CommitteeCancel.doc Records Retention: FIN-33 Permanent



## November 2016

## APPA L&R RALLY

The APPA L&R Rally will take place Feb. 27-March 1 at the Mayflower Hotel in Washington, D.C.

The APPA room block opened for reservations on Nov. 1. Event information is available on the <u>APPA website</u>.

Information regarding the AMP/OMEA group rally events will be distributed after the first of the year.



## CONTACT US

Jolene Thompson – OMEA Executive Director/AMP Executive Vice President jthompson@amppartners.org

**Michael Beirne** – AMP/OMEA Vice President of External Affairs <u>mbeirne@amppartners.org</u>

**Charles Willoughby** – AMP/OMEA Director of Government Affairs cwilloughby@amppartners.org

Website - www.amppartners.org

Phone - 614.540.1111



# OMEA NEWSLETTER

# How elections impact legislative process

The Ohio General Assembly's voting schedule for 2016 illustrates how a general election campaign significantly impacts the legislative process. House and Senate members have been on an extended break since Memorial Day, but will return following the November elections.

After the Nov. 8 election through the end of December, the legislature will be in lame duck session (a reference to current lawmakers who will not return next session). During that time, the Senate plans to meet eight times and the House plans to meet just six times. Both have a handful of "if needed" sessions scheduled as a contingency.

OMEA staff and counsel will be on high alert, as lame duck can be a dangerous time because lawmakers are under deadline to finish work prior to the end of the legislative session. Among other issues, legislators are expected to address the expiring freeze on the state's renewable portfolio standard applicable to investor-owned utilities. The renewable standards are currently frozen at 2014 levels, but set to resume increasing benchmarks in 2017.

Of direct concern to OMEA is possible action by telecommunications companies seeking legislation to limit municipal authority over wireless attachments to poles and streetlights. Their draft legislation, unveiled earlier this month, also brings disputes between municipals and telecommunication companies to the PUCO in direct violation of Home Rule authority. We have committed to working with the telecommunication companies outside of the legislative process in an effort to try to reach an agreement similar to the cable pole attachment issue. Any such agreement will be subject to review and approval by the OMEA Board of Directors.

Broader energy issues regarding possible re-regulation of the electric industry, which investorowned utilities are advocating in varying forms, will be considered in early 2017. Next year will also bring consideration of the biennial state budget bill. More information on these and other legislative issues are listed on Page 2.

### OHIO SENATE & COMMITTEES SCHEDULE NOVEMBER

Tuesday, Nov. 15 Wednesday, Nov. 16 Tuesday, Nov. 22 (if needed) Tuesday, Nov. 29 Wednesday, Nov. 30

#### DECEMBER

Thursday, Dec. 1 Tuesday, Dec. 6 Wednesday, Dec. 7 Thursday, Dec. 8 Tuesday, Dec. 13 (if needed) Wednesday, Dec. 14 (if needed) Thursday, Dec. 15 (if needed) Wednesday, Dec. 28 (if needed)

### **OHIO HOUSE SCHEDULE**

#### NOVEMBER

Tuesday, Nov. 15 (if needed) Wednesday, Nov. 16 Thursday, Nov. 17 Tuesday, Nov. 29 Wednesday, Nov. 30 (if needed)

#### DECEMBER

Tuesday, Dec. 6 Wednesday, Dec. 7 Thursday, Dec. 8 Tuesday, Dec. 13 (if needed) Wednesday, Dec. 14 (if needed) The following is a list of legislation currently being considered at the Ohio Statehouse that has the potential to directly or indirectly impact the future of Ohio's public power utilities.

#### **RENEWABLE ENERGY STANDARDS**

In 2014, lawmakers froze the renewable standards applicable to investor-owned utilities for two years while they further studied the issue and awaited action on the USEPA's Clean Power Plan. Those standards are set to resume in 2017, and legislators and others are likely to enact changes. Governor Kasich has stated that full elimination of the standards would be "unacceptable," yet there is little

majority-party support for maintaining the standards at current levels. As such, some modifications to the standards are expected. Below are the three key RPS bills currently pending; one of which is likely to ultimately be amended and enacted.

**Senate Bill 320**, introduced by Sen. Bill Seitz (R-Cincinnati), seeks a three-year extension of the freeze on Ohio's alternative energy standards. The bill mirrors recommendations made by the Energy Mandates Study Committee report issued in September 2015. The report was one of the requirements under Senate Bill 310 (passed

in 2014) that froze the original standards until Jan. 1, 2017. In addition to extending the freeze, SB 320 includes the following changes to Ohio's energy standards:

- Expands the definition of "advanced energy resources" (energy efficiency savings and peak demand reduction) to include energy intensity reductions, process efficiencies and cogeneration technology.
- Includes bio-gas generation and post-2012 CH&P as an "Renewable energy resource."
- Allows "mercantile" customers (above 700,000 kWh) to optout of participating – and paying a monthly rider for – the EDUs energy efficiency programs.
- Simplifies the process to create an Energy Special Improvement District (E-SID), required for the use of Property Assessed Clean Energy (PACE) financing in Ohio.
- Prohibits the Ohio EPA from implementing the Clean Power Plan, including "carbon trading" without additional changes in law.

**House Bill 554**, introduced by Rep. Ron Amstutz (R-Wooster) simply extends the freeze until 2027.

**Senate Bill 325**, introduced by Sen. Kris Jordan (R-Ostrander) would fully repeal the standards. Although action is ultimately expected, if no legislative action is taken this year, Ohio's standards will resume their annual escalation on Jan. 1, 2017, and culminate in 2027, requiring investor owned electric utilities to acquire 12.5 percent of their generation from renewables and improve their energy efficiency by 22.2 percent.

#### **VILLAGE DISSOLUTION**

**House Bill 509**, introduced by Rep. Gary Scherer (R-Circleville), aims to resolve an issue with dissolution of a village in his legislative

# 2016 LEGISLATIVE UPDATE



on of a village in his legislative district. As introduced, HB 509 would allow electors of a village to file a petition for dissolution with their county board of elections. Currently, a village wishing to dissolve its corporate authority must petition the area legislative authority. Under HB 509, after obtaining the required signatures, final approval of the dissolution would be up to area voters at the next general or special election.

We have raised several points of concern with the bill sponsor, including the relative ease in which to put the issue on the ballot, the process for the continuation of utility service and how long-

term debt is addressed following dissolution.

HB 509 received its first hearing before the House Committee on State Government on May 11, 2016. AMP is working with the bill sponsor and other stakeholders, including the OML and County Commissioners Association of Ohio to address our areas of concern. We expect this issue to return for further legislative activity in 2017.

#### **TAX-EXEMPT FINANCING**

**House Concurrent Resolution 7**, introduced on May 3, 2015 is a victory for OMEA member communities. The resolution, sponsored by Rep. Robert Sprague (R-Findlay) urges Congress to preserve the tax-exempt status of municipal bonds and correctly acknowledges the economic success local governments have had raising capital for infrastructure and utility system through the use of tax exempt financing.

**HCR 7** passed the Ohio House unanimously (90-0) on Feb. 17, 2016, and the Ohio Senate (33-0) on May 11, 2016. Copies of the resolution were sent to Congressional leaders as well as the White House to acknowledge Ohio's support for tax exempt financing.

# 2016 LEGISLATIVE UPDATE CONTINUED

#### **CLEAN POWER PLAN**

**House Bill 541**, sponsored by Rep. Al Landis (R-Dover), is a simplified version of previous "legislative approval" proposals that keep Ohio agencies from taking, "any action to implement" the Clean Power Plan. Similar proposals have died due to concerns over the federal enforcement consequences if legislators prevent Ohio from filing a required State Implementation Plan. At just over five lines long, HB 541 is the shortest proposal of its kind. Based on discussions between OMEA staff and the Speaker's office, we have learned that the bill is not a top legislative priority. would pursue this proposal during the lame duck legislative session. As such, OMEA staff has talked to the bill sponsor, members of leadership and other key lawmakers to oppose any short-term action on the proposal. We have agreed to meet with the telecommunications companies to try to work towards a non-legislative solution and will keep members updated on this issue as it continues to evolve. Ultimately, any proposed solution will be considered by the OMEA Board of Directors.

#### **REREGULATION/STATE ENERGY POLICY**

Seventeen years after the historic passage of Senate Bill 3 and eight years after the adoption of Senate Bill 221, Ohio's investor-owned

#### **POLE ATTACHMENTS**

The nation's two largest wireless internet providers were recently circulated a legislative proposal with Ohio General Assembly members that would remove a municipal utility's authority to regulate small cell wireless or distributed antenna systems (DAS) attachments on their utility poles and streetlights. The proposal grants the Public Utilities Commission of Ohio (PUCO) explicit authority to determine the rates, terms and conditions for these new wi-fi attachments, as well as to issue judgements over local disputes.

The issue of wireline and wireless attachments has been a difficult one for AMP/OMEA communities in recent years as both cable and telecommunications companies have pursued state-level legislation to limit municipal

authority over access to city-owned poles. This type of legislation is typically promoted as a quid pro quo for economic investments by entities seeking to expand their customer base, free of jurisdictional lines, safety requirements, and reasonable rate agreements with impacted local communities. Ohio is not alone in facing this debate, as APPA reports that many states across the country are engaged in similar discussions as a result of advocacy by the telecommunications industry.

OMEA staff has begun outreach education efforts with legislators and stakeholders familiar with the legislative proposal to explain the problems with this and similar efforts in the past that would attempt to place Ohio's municipal electric utilities under state regulation by the PUCO.

Members who have been approached by wireless internet companies are encouraged to report any communications or efforts that occur in their district. Members who have experienced pole attachment issues with cable or telecommunications companies are also encouraged to share their feedback so the OMEA can provide realworld examples to legislators.

This issue will be a top priority of the telecommunications industry in Ohio. We were concerned that telecommunications companies



utilities are pushing for fundamental changes in the regulatory structure governing the industry. Specifically, AEP has begun pursuit of legislation that removes the arms-length separation of their generation, transmission, and distribution companies that is essential for competition in Ohio's energy market. FirstEnergy and Dayton Power & Light have signaled their support for the concept of re-regulation, and DP&L has begun pursuit of legislation to allow the PUCO to approve a non-bypassable rider if the company faces financial distress.

Environmental regulations, market prices and competitive pressures in recent years have resulted in investor owned utilities closing or selling many of their legacy coal power plants. The dramatic pace of traditional baseload

generation getting replaced by low-cost natural gas and renewables alone is causing the utilities to seek new streams of guaranteed revenue. Additionally, Ohio has historically been a net exporter of energy, but in recent years has shifted to be a net importer. FE and AEP have used this fact to push for reregulation, claiming Ohio should control its future energy sources to ensure the state maintains a reliable electric grid.

#### **POWER PURCHASE AGREEMENTS**

Earlier this year, in high-profile and closely watched regulatory proceedings, the PUCO approved two power purchase agreements (PPAs) for AEP and FE under the guise of rate stability and economic investment. The plans allow the IOUs to collect non-bypassable riders from their distribution customers for any unsold output of several power plants deemed uneconomic. Several stakeholders challenged the PUCO decision before the Federal Energy Regulatory Commission (FERC). Less than one month after the PUCO decision, FERC blocked the PPAs, saying they ran afoul of FERC's rules intended to protect against non-arms-length transactions between affiliates.

While FE refiled for a new, similar regulatory path at the PUCO to ensure profits and economic viability, AEP announced in the summer that the company would pursue a legislative solution designed *continued on Page 5* 

# **OMEA General Membership meets at conference**

The OMEA held its General Membership Meeting Sept. 28, 2016 during the AMP/OMEA conference and re-elected the communities of Hamilton, Oberlin and St. Marys, and elected Celina to serve four-year terms on the OMEA Board of Directors. Hamilton is represented by Carla Fiehrer, vice mayor; Oberlin is represented by Scott Broadwell, council; St. Marys is represented by Mayor Pat McGowan; and Celina is represented by Mayor Jeffrey Hazel.

At the OMEA Board Reorganization meeting, members re-elected the executive committee of Mayor Richard Homrighausen, City of Dover, president; Mayor Robin Laubaugh, City of Wadsworth; and Mayor Steve Yagelski, Village of Montpelier.



Keith Brooks speaks during the OMEA General Membership meeting at the 2016 AMP/OMEA Conference on Sept. 28 at the Hilton Columbus at Easton.

This year, the OMEA general membership selected nine new honorary members:

- John Bentine, AMP general counsel Bentine has served as general counsel for AMP and the OMEA since 1981 and will be retiring in early 2017. He joined AMP in 2012 as senior vice president/general counsel and has long served as an ex-officio member of the AMP Board of Trustees.
- Keith Brooks, Capitol Advocates/OMEA state legislative consultant – Brooks has represented the OMEA before state lawmakers since 1984 and will be retiring in December 2016. As a key member of the OMEA legislative lobbying team, Brooks works on behalf of the OMEA in tracking legislation, lobbying state lawmakers and ensuring that the organization's voice is heard by important policymakers.
- Tom Johnson, former field superintendent of Dover Light & Power Johnson began his career with the City of Dover in 1984 as a meter reader, became meter crew leader in 1987 and was promoted to assistant superintendent in 2008. He was named superintendent in 2011 and occupied that position until his retirement in June 2016.
- Mark Brandenburger, former city manager of Hamilton Brandenburger spent the majority of his career serving the people of Hamilton, Ohio. He worked in several positions for the city, retiring as the city manager in 2010.
- Pam Lucas, former village manager of Montpelier and former AMP Board member and officer – Lucas served the Village of Montpelier for 14 years, 12 of those years as village manager, before retiring in July 2016. Over the course of her career she also worked for other public power communities, including the City of Bryan for 14 years and the City of Bowling Green for one year.

- Wayne York, former village manager of New Bremen First hired by the Village of New Bremen in 1973, York served as village administrator for two years before moving in a different direction in his career. He returned to New Bremen in 2005 as village administrator and stayed in that position until his retirement in 2016. York was also an OMEA Board member.
- **Bill Rains, former city manager of Wapakoneta** Rains served as the safety services director for the City of Wapakoneta since 2009, retiring in November 2015. Prior to Wapakoneta, he served as the safety service director for the City of Fostoria, village administrator for the Village of Pioneer and was a foreman with the sewer department in the City of Sylvania.
- Mayor Barbara O'Keefe, former mayor of Wellington O'Keefe retired from the Village of Wellington in January 2016, having served as the mayor since 1993.
- Andrew Boatright, former electric superintendent of Westerville and former AMP Board member – Boatright has more than 30 years of experience in the electric utility industry. He is currently the deputy director of Independence Power & Light in Missouri, having previously served as the manager of the City of Westerville Electric Division from 1996 to April 2016. Boatright is also the current chair of the APPA Board.

The general membership adopted resolutions specially recognizing the individual contributions to the organization by OMEA Honorary Members Keith Brooks and John Bentine, each of whom has served the organization for more than 30 years. Brooks will be retiring in late 2016, and Bentine will retire in early 2017. The establishment of the George V. Voinovich Award was also announced to be presented no more than annually to recognize a state or federal public official whose work has helped public power in Ohio; Retiring long-time state lawmaker and former Orrville mayor Representative Ron Amstutz (R-Wooster) was selected as the first recipient.

# 2016 LEGISLATIVE UPDATE CONTINUED

to effectively re-regulate the retail electric industry in Ohio. FE has expressed conceptual support for AEP's efforts, while at the same time continuing its pursuit of revenue changes through regulatory channels.

On Oct. 12, 2016, FE gained PUCO approval to collect \$132.5 million per year (for three years) from distribution customers to support their credit rating, vital to all borrowing and investments required to preserve aging assets and infrastructure. Just days after the PUCO's approval, DP&L filled a revised electric security plan with the PUCO that includes a similar request for financial assistance based on credit worthiness and financial distress. DP&L is also pursuing that proposal through legislation.

The stakeholders impacted by AEP's legislative restructuring effort will have some new and significant interests in maintaining Ohio's

competitive energy market, including competitive energy suppliers such as IGS, Dynegy, DirectEnergy, large and small business customers, residential advocates, PJM, labor unions, as well as clean energy and environmental advocates.

Such a reversal in a robust and complex industry is no easy request of the legislature and is expected to be the top legislative focus of 2017 besides passage of Governor Kasich's last biennial budget.

OMEA will be following the deliberations closely to ensure there are no issues detrimental to Ohio's municipal electric communities or to AMP included in any final legislation. This includes challenges to Home Rule or changes to industry tax structure, including the kWh tax. We are also looking for potential opportunities to strengthen public power.

# Lame Duck could see action on energy legislation



Marty Kanner - founder and president of Kanner & Associates

hough national attention is focused on the Nov. 8 election, small cadres of congressional staffs are busy working on unfinished business – in-

cluding energy legislation – that could be considered in the postelection "lame duck" session.

Congress will return for three weeks after the election to a full plate of issues. Top on the list is legislation funding the continued operations of the federal government. While that bill is considered "must pass" to avoid a government shutdown, it is also an intra-party political football as the House Freedom Caucus, composed of roughly 30 conservative Republicans, threatens to block the bill and potentially topple House Speaker Paul Ryan (R-WI) unless their policy priorities are met.

Beyond the funding measure and potential extension of expiring tax provisions, Senate Energy Committee Chair Lisa Murkowski (R-AK) remains optimistic that Congress will complete action on the twoyear effort to enact comprehensive energy legislation. The pending bill would streamline the current regulatory process for reviewing hydropower projects and natural gas pipelines, advance energy efficiency and update grid security measures. Staffs for the House and Senate energy panels have been meeting daily in an effort to hammer an agreement. Although considerable progress has reportedly been made in resolving differences in energy policy between the bills previously passed by the House and Senate, the land and water policies added to the legislation remain a significant sticking point.



Of course the election outcome is also likely to factor into the lame duck agenda. Depending on which party gains the advantage, there could be efforts to delay action on the energy bill and other measures until next Congress when the substantive and political outcome could be different. Despite the post-election maneuvering, there is cautious optimism that the energy bill will be enacted and Congress will avoid a political divisive government shut-down.

Regardless of the outcome, there will be only a few weeks break before the 115th Congress begins.

# GET TO KNOW YOUR LEGISLATORS:

Sen. Randy Gardner



S en. Randy Gardner (R-Bowling Green) is a long-time public servant. Having first been elected to the legislature in 1985, Gardner has represented – either as a

State Representative or State Senator – the OMEA member communities of Bloomdale, Bowling Green (his home town), Bradner, Custar, Cygnet, Elmore, Genoa, Haskins, Huron, Milan, Oak Harbor, Pemberville, Tonotgamy and Toledo. Gardner is currently serving his first consecutive term in the Ohio Senate, having previously served in the Upper Chamber from 2001 through 2008. He also served as a member of the Ohio House of Representatives from 1985 to 2000, and again from 2008 through 2012.

A respected leader in state government, Gardner previously served in many leadership posts in the General Assembly, including Senate Majority Leader, Senate President Pro Tempore, House Majority Leader and House Speaker Pro Tempore.

Gardner was chosen to preside as the chair of the Finance Higher Education Subcommittee. He is also a member of the Senate Finance Committee and other panels that deal with Ohio's workforce development and budget management.

Gardner received bachelor's and master's degrees from Bowling Green State Univer-

sity. Prior to his career in public service, he worked both as a real estate agent, and a high school history and government teacher.

Among many other awards and acclamations, Gardner has been named Legislator of the Year by the Ohio Disabilities Council and received the Andrew Carnegie Award from the Ohio Library Association. He has also received the prestigious Watchdog of the Treasury Award numerous times for his 100 percent voting and attendance record in both the Senate and House.

Gardner and his wife Sandy reside in Bowling Green with their children Brooks, Christina and Austin.

# LOBBYIST SPOTLIGHT:

**Dan Leite** 



an Leite is a long-time member of the OMEA legislative advocacy team. He has been with Capitol Advocates (formerly affiliated with Agee, Clymer,

Mitchell & Laret) for 20 years and became one of the firm's owners and partners in 2003.

Leite has been active with the Ohio General Assembly for nearly 25 years, starting with his legislative career in the Ohio House of Representatives where he served as the legislative aide to former State Rep. Dan Troy. Prior to joining Capitol Advocates, Leite served as the assistant director of legislation for the Ohio State Medical Association (OSMA). His primary experience is focused in energy, environment, communications, finance, financial institutions, health, insurance, state and local government and taxation.

Leite is a native of Fremont, Ohio, and holds a bachelor's degree from Bowling Green State University. He is an avid marathon runner and tri-athlete, having completed 151 domestic and international marathons, three Ironman Triathlons and served as the vice chair of the Board of Directors for the Columbus Marathon.

Leite also became a heart transplant survivor this past December. On Christmas Eve he received word that a heart had become available. On Dec. 25, 2015, Leite's heart transplant surgery was successfully completed at the Ohio State University Ross Heart Hospital. Leite had suffered from congestive heart failure for several years prior to the transplant. He is doing well now and is back to work representing the OMEA and its members in the Ohio legislature.



November 4, 2016

# October 2016: Warm weather, fall maintenance keep on-peak prices up

By Mike Migliore - vice president of power supply planning & marketing

Warm weather combined with the typical fall generator maintenance outages kept prices slightly elevated for the month. Although 7x24 prices ended equal to October 2015, 2016 5x16 prices were \$2.50/MWh above last year. Negative congestion continued on the PJM West to PP&L and Indiana Hub to AEP/Dayton Hub path.

AVERAGE DAILY RATE COMPARISONS			
	October 2016 \$/MWh	September 2016 \$/MWh	October 2015 \$/MWh
A/D Hub 7x24 Price	\$29.53	\$29.13	\$29.49
PJM West 7x24 Price	\$30.20	\$30.76	\$31.46
A/D to AMP-ATSI Congestion/Losses	-\$0.48	\$0.50	\$0.23
A/D to Blue Ridge Congestion/Losses	\$1.70	\$1.92	\$1.17
A/D to PJM West Congestion/Losses	\$0.67	\$1.62	\$1.97
PJM West to PP&L Congestion/Losses	-\$10.00	-\$8.39	-\$6.51
IND Hub to A/D Hub Congestion/Losses	-\$3.14	-\$3.55	\$2.58

# AMP files comments, responds to CEIP

By Adam Ward – assistant vice president of environmental affairs & policy

On Oct. 31, AMP filed comments in response to the U.S. Environmental Protection Agency's (USEPA) proposed Clean Energy Incentive Program (CEIP), a component of the Clean Power Plan (CPP) structured to encourage the development of early renewable and energy efficiency projects in low-income communities during the two years leading up to the CPP's compliance period.

AMP's comments on the CEIP included support for certain aspects of the program and recommended changes to others. Specifically, AMP's comments support the USEPA's inclusion of hydropower as an eligible renewable technology, as well as resetting the CEIP eligibility period once the pending legal challenges are resolved. AMP's recommended changes to the proposed CEIP include:

• Adding solar generation to energy efficiency as a technology that should be considered for the two-to-one credit/allowance allocation.

# AMP solar ribbon cutting to take place Dec. 13

By Karen Ritchey – director of member events & programs

A ribbon cutting and dedication ceremony at the Bowling Green solar site will be held at 1 p.m. Dec. 13.



Invitations are being mailed to AMP members, consultants and local officials.

This project in Bowling Green is part of AMP's Solar Phase II initiative. Earlier this year, AMP executed a joint development agreement with DG AMP Solar, LLC, a wholly owned subsidiary of NextEra Energy Resources, LLC. The agreement provides the framework for the development, construction and operation of 80 megawatts (MW) or more of new solar electric generation facilities.

The Bowling Green ribbon cutting and dedication will be held outdoors at the active construction site in a heated tent. Attendees are encouraged to dress appropriately and wear flat shoes. Coffee and cake will be served following the ceremony.

To RSVP, please contact Jodi Allalen at 614.540.0916 or jallalen@amppartners.org.

# Penelec, MetEd file for transmission rate change

By Mike Migliore

On Oct. 28, Penelec and MetEd (both owned by FirstEnergy) filed to eliminate their fixed transmission rate and join the other systems that use a formula rate for transmission charges. The formula will allow for annual changes in

- Alignment of the "low income" definition with existing definitions used in other federal and state programs.
- Reapportionment of credits/allowances from nonparticipating states to participating states rather than retirement of those credits/allowances.
- Encouraging flexibility when linking credits/allowances to renewable power crossing state lines.
- Preventing devaluation of credits/allowances for CEIP eligible renewable generation projects that are also eligible for production tax credit (PTC) or investment tax credit (ITC).

AMP's official comments are available on the AMP website. AMP will continue to update members on this matter as additional information becomes available. Please contact me with questions at <u>award@amppartners.org</u> or 614.540.0946.



## Georgetown breaks ground

By Mike Migliore

Georgetown officials hosted a groundbreaking ceremony at the Brown County Landfill for the start of Energy Development's (EDI) 4 MW landfill generation project. The generation is expected to be online by April 2017.

AMP will purchase all of the output from the site under a 15-year power purchase agreement (PPA) on behalf of Georgetown, Ohio; Williamstown, Kentucky; and Yellow Springs, Ohio. This will be the fourth EDI landfill generation project that AMP purchases power from. As part of the PPA with EDI, AMP's energy control center will handle all of the PJM and members' scheduling arrangements for the generation.

Pictured above at the event on Nov. 3 are (from left): Cody Ward, AMP power supply planning engineer; Ohio State Sen. Joe Uecker; Steve Cowman, EDI president/CEO; Ohio State Rep. Doug Green; Congressman Brad Wenstrup; Bill Rumpke, Jr., Rumpke president/CEO; Bonnie Buthker, district chief of the Ohio EPA's Southwest District Office; Mayor Dale Cahall, Georgetown; and Greg Beamer, Rumpke regional vice president.

#### On Peak (16 hour) prices into AEP/Dayton Hub

Week ending Nov. 4				
MON <b>\$31.35</b>	TUE \$36.41	WED \$33.19	THU \$30.60	FRI <b>\$27.80</b>
Week ending Oct. 28				
MON	TUE	WED	THU	FRI
\$33.50	\$35.88	\$35.20	\$32.70	\$29.14
AEP/Dayton 2017 5x16 price as of Nov. 3 — \$37.05				

AEP/Dayton 2017 5x16 price as of Oct. 27 — \$35.25

## **Energy markets update**

By Jerry Willman - assistant vice president of energy marketing

The December 2016 natural gas contract closed down \$0.023/MMBtu to settle at \$2.769 yesterday. The EIA reported an injection of 54 Bcf for the week ending Oct. 28, which was in line with market expectations.

On-peak power prices for 2017 at AD Hub closed yesterday at \$37.05/MWh, which was \$1.80/MWh higher for the week.

## AMP mails scholarship packets

#### By Jodi Allalen - member events & programs coordinator

AMP scholarship packets with information regarding the Lyle B. Wright and Richard H. Gorsuch scholarship programs were mailed earlier this week. Sent to principal contacts and high schools in member communities, the packets contain scholarship nomination forms, as well as details on rules, eligibility and deadlines. Member communities can nominate one high school student for each scholarship (Gorsuch and Wright). Nominations are due by Dec. 9.

Wright scholarship applicants must be students whose household receives electricity from an AMP member community. Applicants for the Gorsuch scholarship must be students whose parent or guardian is an employee of an AMP member municipal electric department or an employee of AMP.

Up to four Wright and up to four Gorsuch scholarships will be awarded, each for \$2,500. Recipients will be determined by the AMP Board of Trustees and announced in May. Since the program began in 1988, AMP has awarded \$288,000 in scholarships to graduating high school seniors. Member communities are encouraged to participate in this program by nominating a student for the scholarships.

Scholarship packet information is also available on the Member Extranet section of the AMP <u>website</u>. For additional information, please contact me at 614.540.0916 or jallalen@amppartners.org.



## News or Ads?

Call Kerin Scott at 614.540.6406 or email to kscott@amppartners.org if you would like to pass along news or ads.

www.amppartners.org

## Penelec, MetEd rate change

continued from Page 1

the rate based on projected transmission costs of the two systems for the upcoming year.

The impact of this change will result in an increase in rates on Jan. 1, 2017, from the current \$1.26/kW-month price to \$1.88/kW-month, which is a 50 percent increase. This rate will be in place for the 2017 calendar year billing period and will add approximately \$1.50/MWh to power costs for members in Penelec and MetEd.

AMP's legal and engineering teams will be involved in the rate case with the Federal Energy Regulatory Commission (FERC) to examine the basis for the rate increase, including the requested 11 percent rate of return on transmission investments.

## Columbus holds EV workshop

The City of Columbus held an all-day electric vehicle (EV) workshop on Nov. 2. Primarily focused on Columbus' Smart City Grant, the workshop provided information about EV grid integra-



tion, program benefits and charging infrastructure.

Integration of EV and related infrastructure into public power communities across the U.S. has become a trending topic, with multiple organizations pushing for increased education, research and funding for EV-related projects.



## AMP hosts APPA workshop

By Michelle Palmer, PE - vice president of technical services

AMP hosted an APPA Overhead Pole Design Workshop Nov. 3-4, with 15 participants from eight members in Ohio, Michigan and West Virginia, as well as AMP staff in attendance. Throughout the course, participants engaged in a mix of classroom-style instruction and hands-on exercises to help enhance their knowledge of the structural design and loading of distribution poles.

Workshop attendees pictured above are (from left): row one-Tom Jones, Westerville; Ryan Kelley, Westerville; Rod Troxell, Cuyahoga Falls; Jesse Austin, Philippi; Joe Smith, Marshall; Heather Schell, Wyandotte; Steven Harmath, Columbus; Levi Cecil, Wapakoneta; row two-Bob Rumbaugh, AMP; David Overman, Jackson Center; Andy Stiner, Westerville; Bill Whitworth, instructor; John Miner, instructor; Donald Gnaedinger, Columbus; and Daniel Clark, Columbus. Attendees not pictured are Cody Crose, AMP; and John Stewart, Bowling Green.

# Classifieds

# AMP in search of candidates for multiple positions

American Municipal Power, Inc. (AMP) is seeking applicants for the following positions. For complete job descriptions, please visit the "careers" section of the AMP website or email Teri Tucker at <u>ttucker@amppartners.org</u>.

**Environmental Compliance Specialist** – This position maintains compliance status of AMP-owned/managed facilities. Qualifications include a bachelor's degree in chemical/civil/environmental engineering or environmental/natural science, with three to five years of environmental compliance/regulatory work experience preferred. Knowledge of the electric utility industry is highly desired and an understanding of Ohio air permitting regulations is preferred. Position requires overnight travel up to 25 percent, mostly in Ohio and neighboring states.

**AMI/MDM Operator** – This position has expert knowledge of all MDM and AMI system functionality and connectivity. Operator will monitor and ensure the schedule tasks that make up the AMI processes are run and completed successfully. The operator will prepare and maintain daily, weekly and monthly processing schedules for AMI system operation. Position will track and verify the quality of data from all AMI sources, troubleshooting problems and performing minor repairs with various vendors support personnel. The AMI/MDM Operator will also assist programmers and technical support in testing and debugging new applications and upgrades for the AMI and MDM systems. Qualifications include mechanical engineering degree or technical degree in metering or equivalent experience.

**Accountant** – This position is responsible for the preparation, analysis and review of financial statements for projects on behalf of AMP's members, research and follow-up on variances to budget, month-end close processes and accruals, account reconciliations, and manual journal entries. Partners with the accounting team to remediate control deficiencies, ensure workflows are documented, best practices are implemented, and policies and procedures are in place to ensure internal controls are in

#### **CLASSIFIEDS continued from Page 3**

compliance with Sarbanes-Oxley standards. Qualifications include a bachelor's degree from an accredited university. A minimum of two to five years of relevant experience, and proficiency with Oracle E-Business Suite and Microsoft Excel are preferred. CPA and/or MBA, as well as general knowledge of the energy industry and FERC uniform system of accounts are desired.

# City of Napoleon is accepting applications for city manager

The City of Napoleon is currently accepting applications for the position of city manager. This position is responsible for the administration of the various functions of government as stated in the city charter supplemented by policies established by city council. A valid driver's license is required. This is a full-time position with a starting annual salary of \$85,000 to \$115,000 depending on individual's experience.

Applications and job description may be obtained beginning Oct. 25 between 7:30 a.m. to 4 p.m. from the City of Napoleon's Administration Building, located at 255 W. Riverview, PO Box 151, Napoleon, Ohio, 43545; or downloaded from the City of Napoleon's <u>website</u>.

A properly completed notarized application must be returned to the above address with a resume and cover letter by noon Nov. 11 to be considered. Applications submitted without following the above requirements will not be considered for employment. EOE.

## **Bowling Green seeks lineman**

The City of Bowling Green electric division is seeking applicants for the position of journeyman lineman. This position is responsible for constructing, maintaining, troubleshooting and repairing the city's electrical distribution system.

Duties include operating equipment, maintaining service lines, analyzing and repairing outage situations, connecting new customers to electrical power, maintaining street lights and informing public of work. Candidates must have a high school diploma or equivalent, successful completion of a lineman apprenticeship program, a Commercial Class A driver's license, and three to five years of relevant experience.

A copy of the job description will be provided to applicants. Interested candidates must complete an application, available on the city's <u>website</u>. Applications are also available in the city's personnel department. Résumés may be included, but will not substitute for a completed application. Applications must be completed and returned to the personnel department, City of Bowling Green, 304 N. Church St., Bowling Green, Ohio 43402. For additional information, please call 419.354.6200 or email <u>BGPersonnel@bgohio.org</u>.

City office hours are 8 a.m. to 4:30 p.m. weekdays. Applications must be received by 4:30 p.m. Nov. 23. AA/EEO.

# **Register now** for Webinars



An internet connection and a computer are all you need to educate your entire staff for just \$99. Register today at APPAAcademy.org. Non-APPA members enter coupon code **AMP** to receive the member rate.

#### **Raising Awareness of Public Power Webinar Series**

- Working Effectively with Local Media Dec. 1
- Starting and Sustaining Social Media for Your Utility Dec. 9
- Marketing & Communications on a Shoestring Jan. 12
- Crisis Communications Jan. 25





# Calendar

Nov. 7—Finance & Accounting Webinar Contact Joe Regan at jregan@amppartners.org for dial-in information

Nov. 14-15—OSHA 10 Class AMP Headquarters, Columbus

Feb. 27-March 1—APPA Legislative Rally *Mayflower Hotel*, *Washington D.C.* 

American Municipal Power, Inc. 1111 Schrock Road • Suite 100 Columbus, Ohio 43229 614.540.1111 • FAX 614.540.1113 www.amppartners.org



# City of NAPOLEON, Ohio

Operations Department 1775 Industrial Dr., P.O. Box 151, Napoleon, OH 43545 Phone: 419/599-1891 Fax: 419/592-4379



Operations Superintendent Jeffrey H. Rathge

Water Distribution Foreman Brian Okuley

Streets/Sewer Foreman Roger Eis

Refuse/Recycling Foreman Perry Hunter

Head Mechanic Tony Kuhlman



# **2016 CURBSIDE LEAF PICK UP**

The City of Napoleon will begin curbside leaf pick up on Monday, November 14, through and including Friday, November 18, 2016. There will be no specific schedule for the pickup of bagged leaves; only those who have received a letter of confirmation for vacuuming services will be scheduled – no other residents are permitted to rake their leaves to the curb.

Residents should have bagged leaves at the curb by 7:00 a.m. Monday, November 14; leaves to be vacuumed should be at the curb by 7:00 a.m. of their scheduled day.

The City would also like to remind residents that leaves may be deposited at the 1722 Oakwood Ave. facility in loose (bulk) form on the existing grass, leaves and vegetative pile.