

# STATE OF THE UTILITY

October 2017

# OPERATIONS SUMMARY

CORPORATE SAFETY

ENVIRONMENTAL

REGULATORY

PERSONNEL

October 2017

**Safety**

**Employees**

	Current Month		
	First Aid	Recordable	DART
Administration	0	0	0
WWW Systems	0	0	0
Energy Supply	0	1	0
Energy Delivery - Electric/Gas	2	1	0
GRUCom	0	0	0
Totals		2	

	Year to Date		
	First Aid	Recordable	DART
Administration	0	0	0
WWW Systems	0	0	0
Energy Supply	0	1	0
Energy Delivery - Electric/Gas	0	1	0
GRUCom	0	0	0
Totals		2	

**Vehicles**

	Current Month		
	Miles Driven	Recordable	Preventable
Administration	15,563	0	0
WWW Systems	87,784	1	1
Energy Supply	5,332	1	1
Energy Delivery - Electric/Gas	129,218	2	1
GRUCom	11,144	0	0
Totals	249,041	4	

	Year to Date		
	Miles Driven	Recordable	Preventable
Administration	15,563	0	0
WWW Systems	87,784	1	1
Energy Supply	5,332	1	1
Energy Delivery - Electric/Gas	129,218	2	1
GRUCom	11,144	0	0
Totals	249,041	4	

**Environmental**

	Current Month	
	Notices of Violation	Emissions
Notices of Violation	0	
DH1, DH2, DHCT3, JRKCC1		
CO <sub>2</sub> (tons)	95,548	
NO <sub>x</sub> (tons)	142	
SO <sub>2</sub> (tons)	56.5	
DH Unit 2 (only)		
PM <sub>FILT</sub> (tons)	4	
Hg (lbs)	0.36	

**Calendar Year to Date**

Notices of Violation	0
CO <sub>2</sub> (tons)	872,564
NO <sub>x</sub> (tons)	1,019
SO <sub>2</sub> (tons)	306.0
PM <sub>FILT</sub> (tons)	25
Hg (lbs)	2.01

**Regulatory**

	Current Month	
	NERC	Notice of Violations
NERC		
Notice of Violations	0	
Self Reports/Potential Violations	0	

**Year to Date**

Notice of Violations	0
Self Reports/Potential Violations	1

**Personnel**

	Sum of AUTHORIZED_FTE	Sum of FILLED_FTE	Sum of VACANCY
GRU-Administration/ Community Relations	4.00	4.00	0.00
GRU-Administration/ COO	2.00	2.00	0.00
GRU-Administration/ Elect Reliability Compliance	2.00	2.00	0.00
GRU-Administration/ General Manager	5.00	5.00	0.00
GRU-Administration/ Legal Services	1.00	1.00	0.00
GRU-Administration/ Safety	5.00	2.00	3.00
GRU-Administration/ Training	6.00	6.00	0.00
GRU-Customer Support Services	125.25	111.25	14.00
GRU-Customer Support Services/ Business Services	6.00	4.00	2.00
GRU-Customer Support Services/ Communications	6.00	5.00	1.00
GRU-Energy Delivery	263.00	232.00	30.00
GRU-Energy Supply	146.00	134.00	12.00
GRU-Energy Supply/ District Energy	10.00	10.00	0.00
GRU-Energy Supply/ Electric Environmental Permitting Compliance	4.00	4.00	0.00
GRU-Finance	32.00	28.00	4.00
GRU-GRUCom	38.00	30.00	7.00
GRU-Information Technology	63.00	52.00	11.00
GRU-Water/ Wastewater	168.00	151.00	17.00
Grand Total	886.25	783.25	101.00

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# CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

## Customer Operations Metrics Summary October 2017

<b>Active Accounts</b>	Oct-17	YTD Gain/Loss	FY17
<i>Residential Contract Accounts</i>			
Total	90,063	(39)	90,102
Electric	83,639	(55)	83,694
Gas	33,149	26	33,123
Water	62,652	(40)	62,692
Wastewater	58,623	(37)	58,660
Telecomm	134	(3)	137

<b>Active Accounts</b>	Oct-17	YTD Gain/Loss	FY17
<i>Nonresidential Contract Accounts</i>			
Total	13,482	5	13,477
Electric	10,920	3	10,917
Gas	1,604	(9)	1,613
Water	8,555	2,663	5,892
Wastewater	4,651	0	4,651
Telecomm	355	2	353

<b>New Installations</b>	Oct-17	FY18 To Date	FY17
Electric	153	153	1545
Gas	56	56	432
Water	61	61	525
Wastewater	58	58	530
Telecomm	15	15	223

<b>Residential Disconnects</b>	Oct-17	FY18 To Date	FY17
Volume	1,983	1,983	14,335
Average Balance	\$255.98	\$256.00	\$245.50

<b>Call Center Volume</b>	Oct-17	FY18 To Date	FY17
Average Speed of Answer	0:24:49	0:24:49	0:04:30
CSR Calls	13,337	13,337	138,716
CSR Callbacks	3,420	3,420	19,673
IVR Self Service	26,817	26,817	283,147
Total	40,154	40,154	421,863
IVR/Total	67%	67%	67%

<b>Revenue Assurance</b>	Oct-17	FY18 To Date	FY17
Referred to Collections	\$202,413.69	\$202,413.69	\$2,214,584.97
Recovered	\$75,483.25	\$75,483.25	\$664,519.40

<b>Service Orders</b>	Oct-17	FY18 To Date	FY17
Move Ins	6,829	6,829	117,647
Move Outs	7,338	7,338	117,865

<b>Bills Generated</b>	Oct-17	FY18 To Date	FY17
Paper Bills	109,477	109,477	1,245,142
eBills	16,614	16,614	191,498
Total	126,091	126,091	1,436,640
eBill/Total	13%	13%	13%

<b>Average Res Bill Amounts</b>	Oct-17	FY18 To Date	FY17
Electric (kWh)	875	875	804
Electric (\$)	\$130.15	\$130.15	\$117.98
Gas (Therms)	9	9	16
Gas (\$)	\$21.57	\$21.57	\$28.81
Water (kGals)	5	5	5
Water (\$)	\$30.17	\$30.17	\$31.74
Wastewater (kGals)	5	5	5
Wastewater(\$)	\$35.56	\$35.56	\$38.08

<b>Payment Arrangements</b>	Oct-17	FY18 To Date	FY17
Total	13,427	13,427	95,142

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# ENERGY DELIVERY

ELECTRIC T&D  
SYSTEM RELIABILITY  
GAS



## ENERGY DELIVERY - UAB REPORT - OCTOBER 2017

### Durations Reliability Report Between 10/01/2017 and 10/31/2017

Excludes Extreme Weather and Generation/Transmission Disturbances

CUSTOMER DATA	RELIABILITY INDICIES		MONTHLY AVG GOAL	
Monthly Average Customers Served(C)	96,264	Average Service Availability Index (ASAI)	99.9961%	
Total Hours of Customer Demand	69,310,080	System Average Interruption Duration Index (SAIDI)	1.66 Mins.	4.5 Mins
Total Number of Outages	78	Customer Average Interruption Duration Index (CAIDI)	35.81 Mins	55 Mins
Total Number of Customers Affected (CI)	4,474	System average Interruption Frequency Index (SAIFI)	0.05	0.08
Total Customer Minutes Interrupted (CMI)	160,222			
Total Customer "Out Minutes"	7,841	Average Length of a Service Interruption (L-Bar)	100.53 Mins	

#### Outage Duration Times

Average Hours: 1  
Maximum Hours: 5  
Minimum Hours: 0

#### Cause of Outages

Cause	Overhead	Underground	Undetermined	Total
1. Weather	0	0	0	0
1. Vegetation	24	2	7	33
1. Animals	7	4	0	11
1. Foreign Interference	0	0	0	0
1. Human Cause	0	1	2	3
1. Undetermined	4	3	0	7
1. Equipment Failure	7	7	10	24
1. All Remaining Outages	0	0	0	0
Total	42	17	19	78

## ENERGY DELIVERY - UAB REPORT - OCTOBER 2017

### **Energy Delivery - Major Design Projects - Electric**

#### Major Electric Design Projects underway:

- > Butler Plaza Town Center
- > Boulevard Station, Butler Fire Station
- > Blues Creek Unit 7 – 16 residential units
- > The Windsor of Gainesville NW 83 St & 39th Ave – (Nursing Home)
- > Springhill MOB Phase 2
- > One College Park (apartments)
- > CRA - NW 1st Ave (OH to UG conversion)
- > Ingenuity (office building)
- > Depot Ave. Phase #4 Project (relocation due to road work)
- > The Nine (apartments)
- > Exactech Inc. Parking Garage

#### Major Electric Design Projects expected to start within 30 days:

- > Drury Inn & Suites – 4000 SW 40 Blvd (Hotel)
- > Gloria's Way Subdivision - 42 lot subdivision 900 SW 122nd Street
- > North Florida Women's Clinic - 4337 NW 8th Avenue
- > SW 4th Ave OH to UG Conversion
- > Public Works SW 6th Street Roundabout
- > CRA South Main Street (OH to UG Conversion)
- > SE 4th Street Roadway Project (relocation due to road work)

## ENERGY DELIVERY - UAB REPORT - OCTOBER 2017

### **Energy Delivery - Major Construction Projects - Gas**

#### Major Gas Design Projects:

- > Gas Construction, Engineering and Marketing reviewing options to extend gas service into Newberry. Reviewing and estimating costs from the Argos Line as well as from Sable Trail. Marketing preparing ROR's.
- > Obtained US 41/US 27 (SR 25) as-built drawings from the FDOT. The information is being used for the development of the proposed gas main extension from the Argos Plant transmission line into the City of Newberry.
- > Resolved gas main and service line routes for Celebration Pointe Blk 4 (approx. 3 restaurants) - sidewalks will not be poured until after the gas mains are installed in that area.
- > Received approved County permits for gas crossing on NW 51st St at 3200 block (190 ft) and for Jonesville's Willow Walk project (550 ft).
- > Submitted work orders to Construction for gas main relocation on Depot Ave for Segment 4 at SE 7th St, 95 ft.
- > Completed plan reviews (PR): Gainesville Early Learning Center PR1 (Approved), Woodland Park PR3 (Not Approved), and Taco Bell near The Standard PR 1 (Approved), , Celebration Pointe Blk 12 PR2 (Not Approved), Shands Guest House PR2 (Not Approved), Blues Creek Unit 5 Phase 2 PR 1 (Not Approved and Oakmont Phase 3 PR 2 (Not Approved).
- > County permits requested for gas crossing on NW 51st St at 3200 block (190 ft) and for Jonesville's Willow Walk project (550 ft).
- > FDOT permit approved for gas main extension along Archer Road (SR 24) for Fairfield Inn project (1500 ft).

#### Gas Construction Activities:

- > Begin Gas Main Installation in Chestnut Plantation - ongoing.
- > Main Ext. for Buchholz Paint and Body in Airport Ind. Park - Finished
- > Butler Town Center and Celebration Point - ongoing as construction is on-going in both of these projects.
- > Gas Main Installation 3500 Blk SW Windmeadows Blvd (Butler Plaza)
- > Meadowbrook Subdivision main installation on NW 31st Place
- > Main Installation in Oakmont Phase 2. (2937' of main). - finished
- > We completed several minor main extensions for new residential customers.
- > Gas Main Installation in Gloria's Way Subdivision – on test.
- > Gas Main Installation for Aloft Hotel on Hull Road - finished.

New Services installed in October: 40 – New Customer work/Not replacement work

**ENERGY DELIVERY - UAB REPORT - OCTOBER 2017**

**Electric System Consumption**

<b>ELECTRIC SYSTEM</b>	<b>CONSUMPTION</b>	<b>CUSTOMERS</b>
Feed-In-Tariff - Residential	44 KWH	105
Feed-In-Tariff - General Service	2,717 KWH	157
Electric - GS - Demand - Regular	51,429,931 KWH	1,252
Electric - General Service Demand PV	706,520 KWH	19
GREC Startup Supplemental and Standby	345,597 KWH	1
Electric - GS - Kanapaha w Curtail Cr	973,200 KWH	1
Electric - GS - Demand - Large Power	8,052,840 KWH	8
Electric - GS - Murphree Curtail Credit	1,399,200 KWH	1
Electric - GS Large Demand PV	4,363,200 KWH	2
Electric - GS - Non Demand	16,282,667 KWH	10,213
Electric - General Service PV	156,147 KWH	62
Electric - Lighting - Rental	1,040,745 KWH	4,503 <i>n</i>
Electric - Lighting - Street - City	792,075 KWH	14 <i>n</i>
Electric - Lighting - Street - County	299,356 KWH	2 <i>n</i>
Electric - Lighting - Traffic	4,542 KWH	2 <i>n</i>
Electric - Residential - Non TOU	77,563,241 KWH	91,856
Electric - Residential PV	176,345 KWH	209
Total Retail Electric ( <i>n</i> =not included in total)	<u>163,588,367 KWH</u>	<u>103,886</u>
City of Alachua	11,474,000 KWH	24,549 KW
City of Winter Park	7,440,000 KWH	10,000 KW
Total (Native) Electric	182,502,367 KWH	

**ENERGY DELIVERY - UAB REPORT - OCTOBER 2017**

**Gas System Consumption**

**GAS SYSTEM**

Gas - GS - Regular Service (Firm)	606,491 THM	1,509
Gas - GS - Regular Service (Small)	9,332 THM	277
Gas - GS - Interruptible - Regular Serv	46,070 THM	1
Gas - GS - Interruptible - Large Volume	357,793 THM	7
Gas - Residential - Regular Service	307,518 THM	33,743
Total Retail Gas	<u>1,327,204 THM</u>	<u>35,537</u>
Gas - GS - UF Cogeneration Plant	1,206,262 THM	1
Gas - Residential - LP - Basic Rate	2,064 GAL	197
GREC Gas (PGA Only)	23,890 THM	1

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# ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

## Energy Supply - October 2017

### System Statistics

	Unit Capability output - MWn
DH-2	228
DH-1	75
Kelly CC	108
CT's	106
Grid	2 X 224
GREC	102.5

### Energy Supply - MWHrs Delivered

Source	Month	YTD	Budget YTD	Delta Budget
DH-2	63,927	63,927	106,656	(42,729)
DH-1	16,691	16,691	14,135	2,556
Kelly CC	17,146	17,146	14,689	2,457
CT's	-	-	-	-
Grid	56,381	56,381	28,805	27,576
GREC	47,163	47,163	-	47,163

### Average Energy Distribution Curve

Curve 1 is the hourly distribution of load averages over the month (pg ES2)

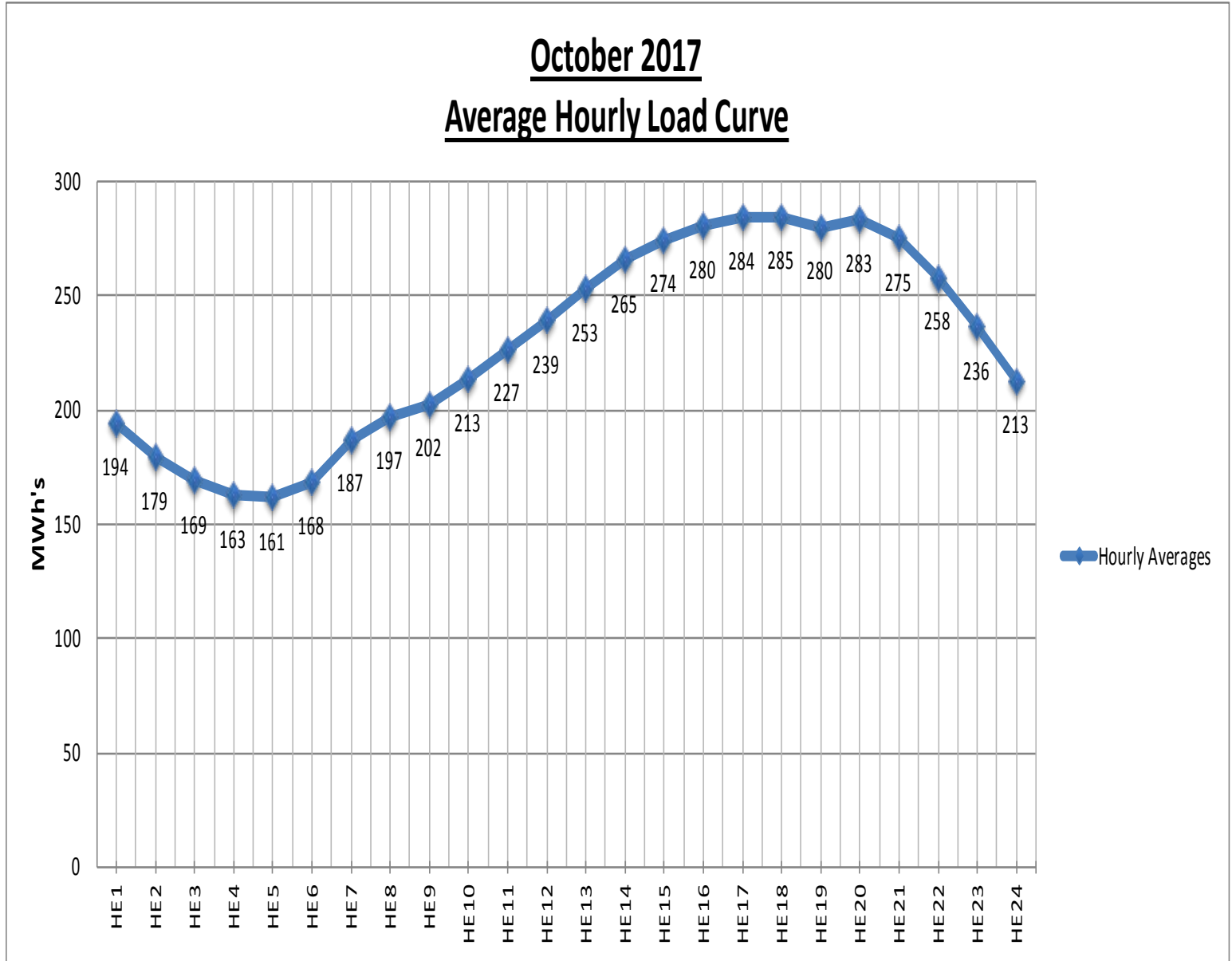
Curve 2 is peak load per day (pg ES3)

### Fuel Consumed

	Month	YTD	Budget YTD	Delta Budget
Coal - Tons	24,885	24,885	54,470	(29,585)
Gas-MCF	531,817	531,817	341,299	190,518
Fuel oil - Gal	-	-	-	-



Hour Ending	Ave. Load
HE1	194
HE2	179
HE3	169
HE4	163
HE5	161
HE6	168
HE7	187
HE8	197
HE9	202
HE10	213
HE11	227
HE12	239
HE13	253
HE14	265
HE15	274
HE16	280
HE17	284
HE18	285
HE19	280
HE20	283
HE21	275
HE22	258
HE23	236
HE24	213

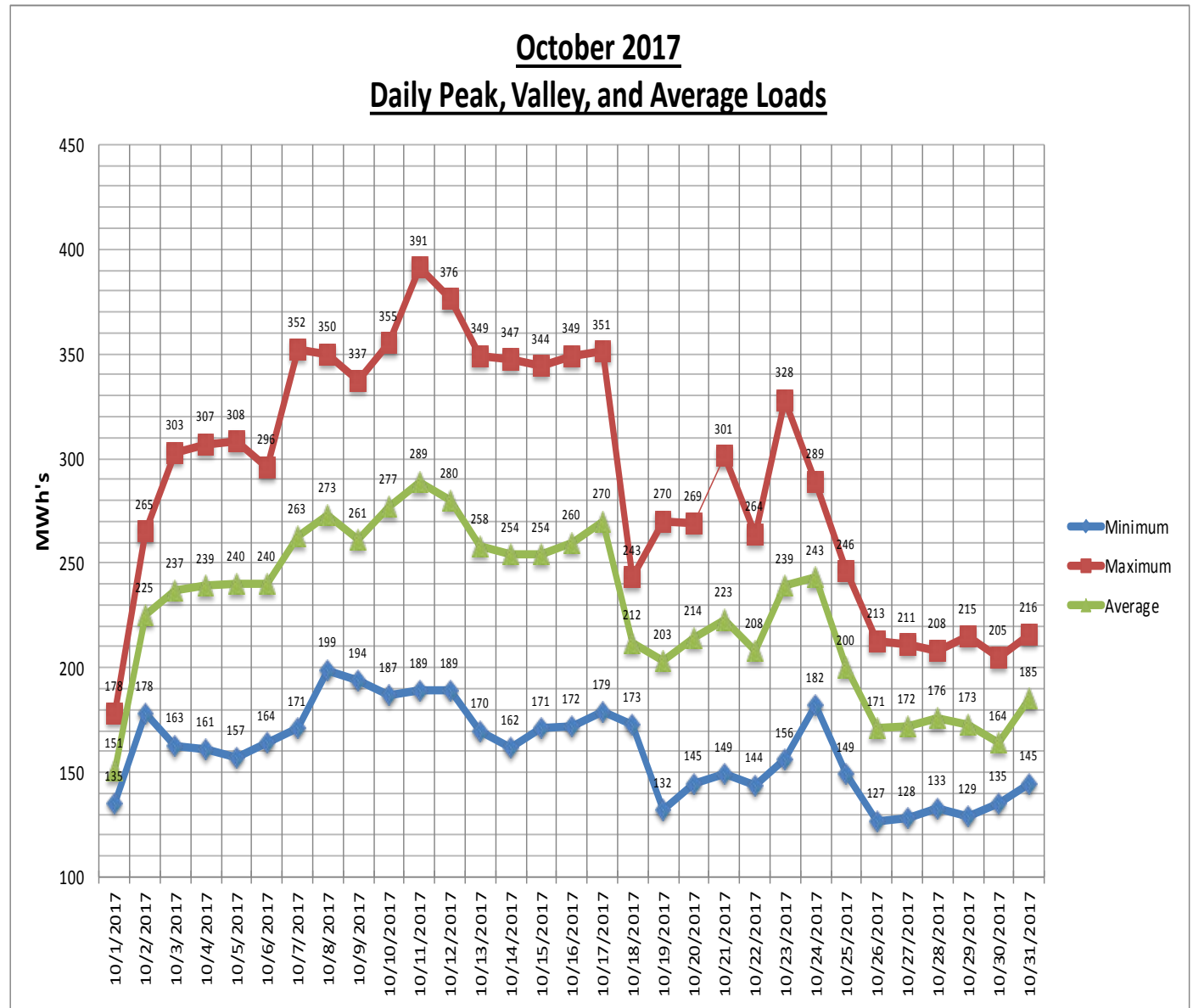


Date	Valley	Peak	Ave
10/1/2017	135	178	151
10/2/2017	178	265	225
10/3/2017	163	303	237
10/4/2017	161	307	239
10/5/2017	157	308	240
10/6/2017	164	296	240
10/7/2017	171	352	263
10/8/2017	199	350	273
10/9/2017	194	337	261
10/10/2017	187	355	277
10/11/2017	189	391	289
10/12/2017	189	376	280
10/13/2017	170	349	258
10/14/2017	162	347	254
10/15/2017	171	344	254
10/16/2017	172	349	260
10/17/2017	179	351	270
10/18/2017	173	243	212
10/19/2017	132	270	203
10/20/2017	145	269	214
10/21/2017	149	301	223
10/22/2017	144	264	208
10/23/2017	156	328	239
10/24/2017	182	289	243
10/25/2017	149	246	200
10/26/2017	127	213	171
10/27/2017	128	211	172
10/28/2017	133	208	176
10/29/2017	129	215	173
10/30/2017	135	205	164
10/31/2017	145	216	185

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217

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## Major Energy Supply Projects/Milestones Updates

1. For Kelly Plant Generation Station Outage (JCC1 Outage):
  - a. The work on the combustion CT4 is on track with no significant discovery work, and expected to restore CT4 to service by 11/21/2017.
  - b. The work on Unit #8 has had significant discovery of cracking in the turbine steam chest, even more extensive than what we saw in the 2013 outage. As such we have arranged for these repairs to be done by Siemens in their Charlotte, NC Shop. The steam chest shipped on 11/4, and arrived in Charlotte on 11/5. With a 21 day weld estimate if all goes as planned Unit #8 (and hence JCC1) could be fully restored to service by mid-December.
2. For the South Energy Center Phase 2 project we are continuing with the electrical migration of the new Wartsilla engine (REG1) and the new 3 MW Diesel Engine (DG3). We are working diligently with the hospital to meet all the required testing and performance guarantees. As the migration testing impacts both hospitals (Cancer and Cardio/Neuro-medicine), most of the testing has had to be done after the last patient surgery at night (~10:00pm) and through the night.
3. The focus for last 2 months was on the addition of the Deerhaven Renewable to the Energy Supply Generation. At this point we are happy to report through all the efforts we are ready for this to occur as planned on 11/7/2017.

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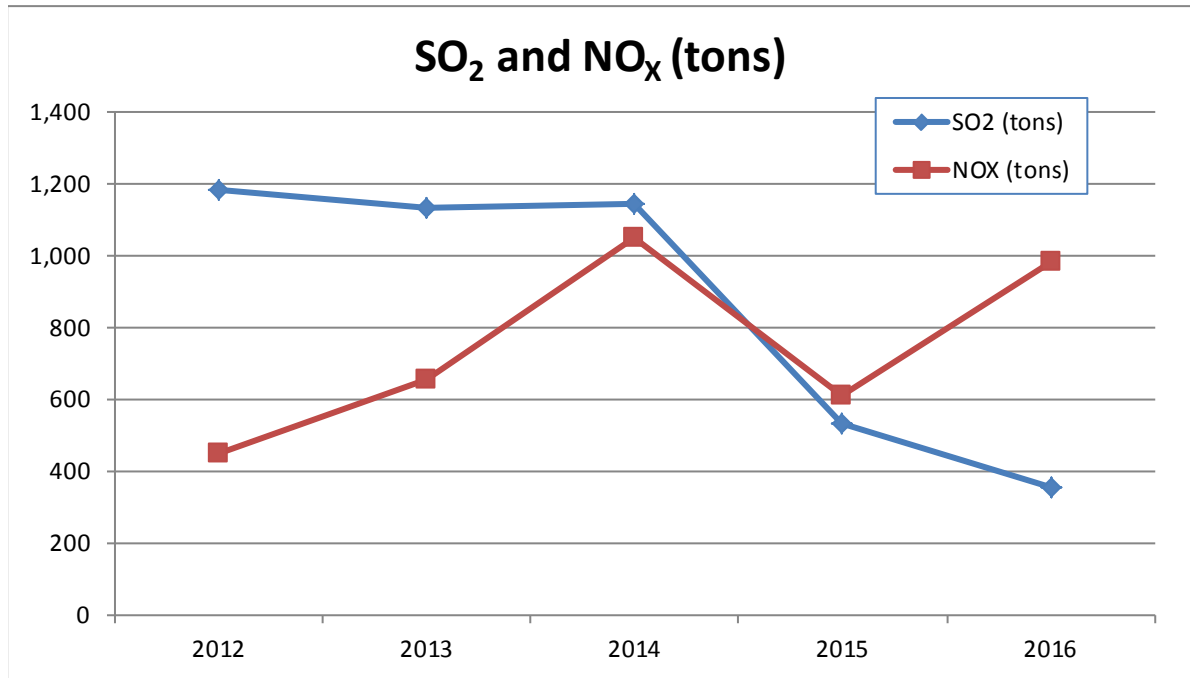
# ENVIRONMENTAL PERMITTING

## Emissions Data

## Yearly Emissions

	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)	Mercury (lbs)	PM (tons)	CO <sub>2</sub> (tons)
2012	1,182	450	8.95	125	1,317,603
2013	1,134	653	6.64	112	1,177,703
2014	1,144	1,052	6.23	32	1,192,647
2015	532	608	5.49	47	1,260,423
2016	354	984	2.92	61	1,216,690

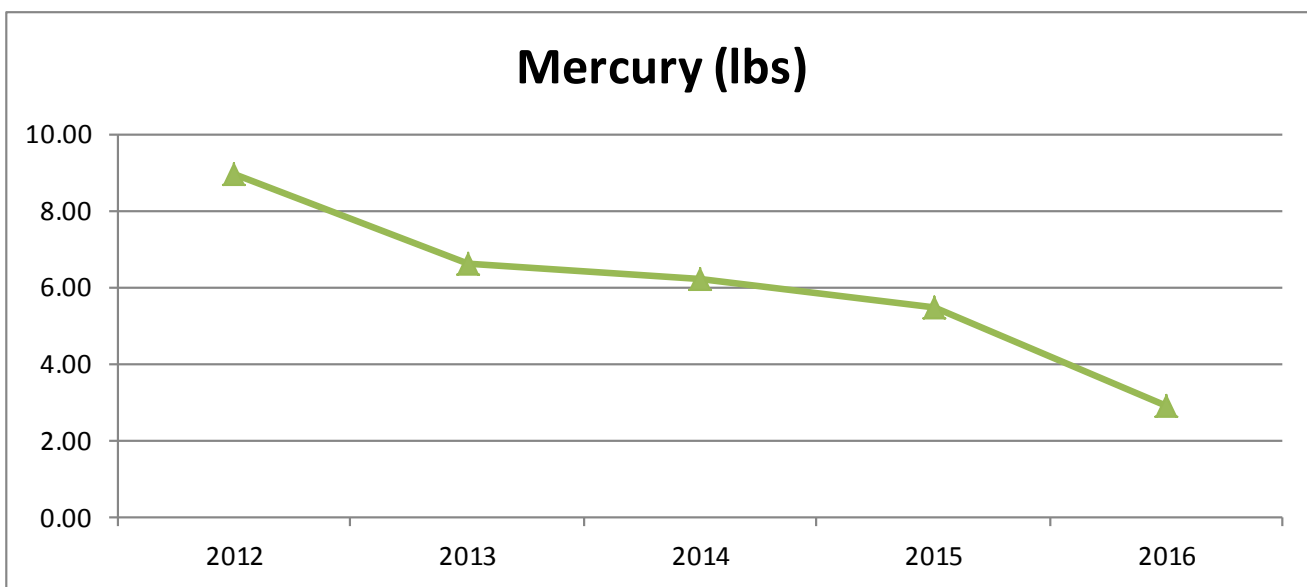
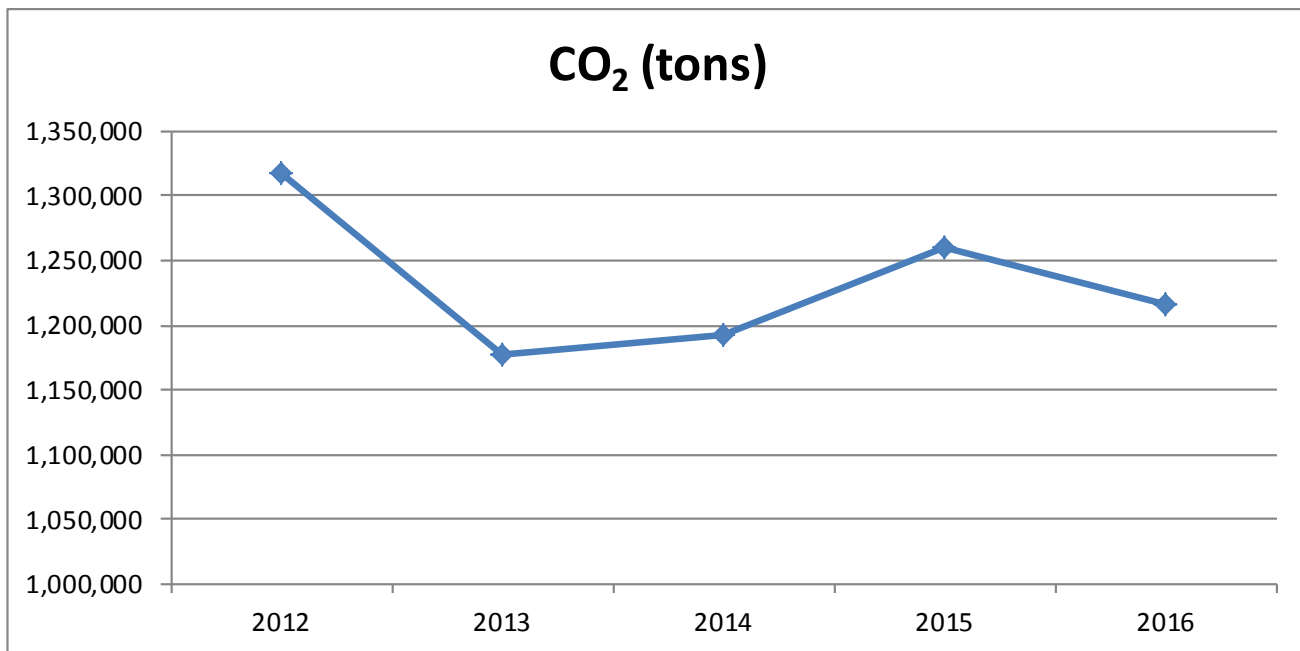
2016 Mercury values are for Unit 2 only.



SO<sub>2</sub> was lower in 2015 and 2016 due to higher removal rate settings to assure compliance with the MATS Rule.

NO<sub>x</sub> was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate.

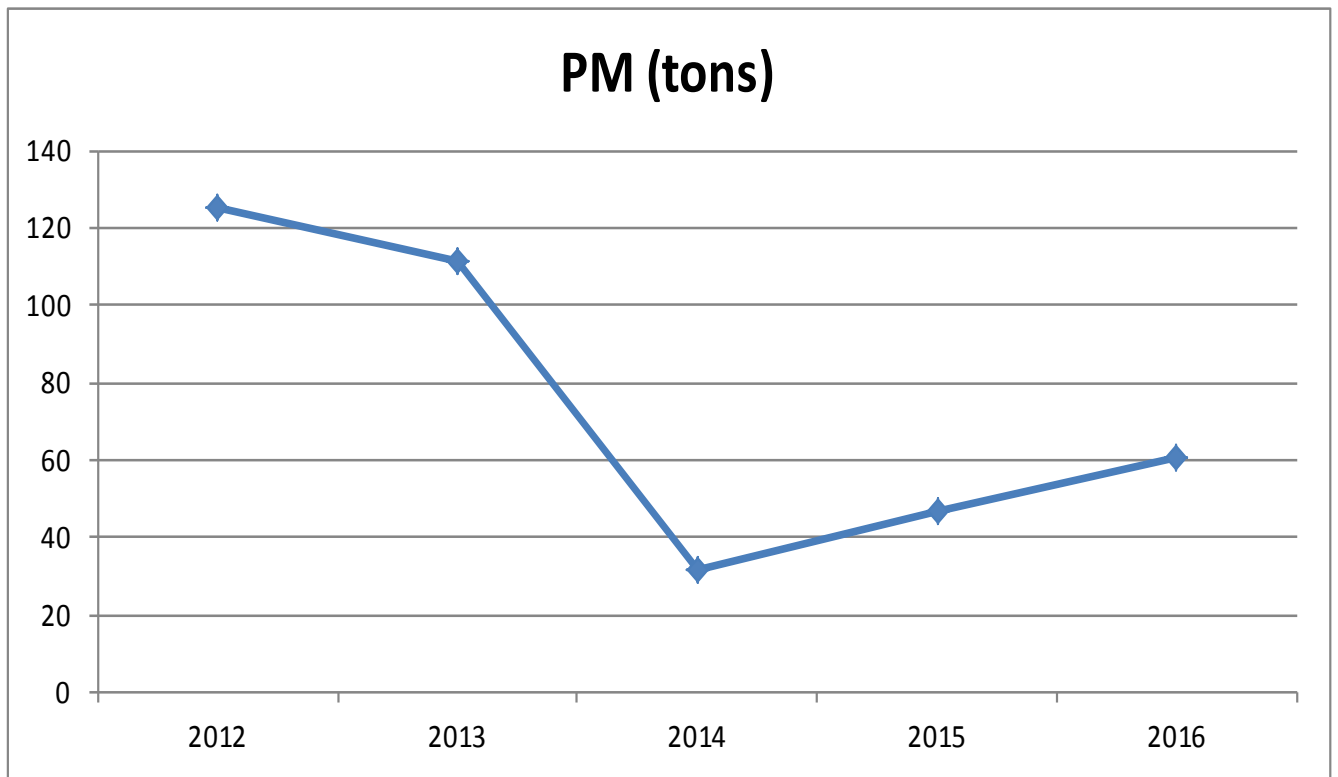
## Yearly Emissions



**2016 Mercury values are for Unit 2 only.**

**Mercury was lower in 2015 and 2016 due to higher removal rate settings to assure compliance with the MATS Rule.**

## Yearly Emissions





**Mass Emissions - Last Month for 5 Years - October**

	<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
Oct. 2013	53.5	14.0			23,887	320,352	28,170
Oct. 2014	44.5	112.4			113,425	1,243,848	126,504
Oct. 2015	15.5	61.6	0.2	2.1	75,778	1,088,760	122,329
Oct. 2016	0.3	26.5	0.0	0.0	52,756	887,731	99,920
Oct. 2017	56.5	142.3	0.4	3.9	95,548	1,095,593	111,286

		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
Oct. 2013	DH1	0.0	0.8			633.8	10,666.0	1,016.0
	DH2	53.3	8.6			11,516.7	112,251.0	11,878.0
	DHCT3	0.1	0.1			369.5	6,181.0	482.0
	JRKCC1	0.1	4.5			11,366.5	191,254.0	14,794.0
	<b>TOTAL</b>	<b>53.5</b>	<b>14.0</b>	<b>0.000</b>	<b>0.00</b>	<b>23,886.5</b>	<b>320,352.0</b>	<b>28,170.0</b>

		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
Oct. 2014	DH1	0.0	4.2			3,516.9	59,175.0	5,728.0
	DH2	44.4	101.3			93,883.1	915,041.0	90,449.0
	DHCT3	0.0	0.1			272.3	4,579.0	339.0
	JRKCC1	0.1	6.8			15,753.1	265,053.0	29,988.0
	<b>TOTAL</b>	<b>44.5</b>	<b>112.4</b>	<b>0.000</b>	<b>0.00</b>	<b>113,425.4</b>	<b>1,243,848.0</b>	<b>126,504.0</b>

		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
Oct. 2015	DH1	0.1	12.0			11,329.5	190,622.0	18,478.0
	DH2	15.2	42.7	0.18	2.14	26,318.6	256,525.0	25,852.0
	DHCT3	0.0	0.0			0.0	0.0	0.0
	JRKCC1	0.2	6.9			38,129.7	641,613.0	77,999.0
	<b>TOTAL</b>	<b>15.5</b>	<b>61.6</b>	<b>0.181</b>	<b>2.14</b>	<b>75,777.8</b>	<b>1,088,760.0</b>	<b>122,329.0</b>

		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
Oct. 2016	DH1	0.1	17.9			15,061.4	253,432.0	21,726.0
	DH2	0.0	0.0	0.00	0.00	0.0	0.0	0.0
	DHCT3	0.0	0.1			608.5	10,240.0	753.0
	JRKCC1	0.2	8.5			37,086.3	624,059.0	77,441.0
	<b>TOTAL</b>	<b>0.3</b>	<b>26.5</b>	<b>0.000</b>	<b>0.00</b>	<b>52,756.2</b>	<b>887,731.0</b>	<b>99,920.0</b>

		<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
Oct. 2017	DH1	0.1	14.7			14,039.7	236,253.0	18,419.0
	DH2	56.4	126.0	0.360	3.871	72,551.9	708,646.0	75,911.0
	DHCT3	0.0	0.0			0.0	0.0	0.0
	JRKCC1	0.0	1.6			8,956.1	150,694.0	16,956.0
	<b>TOTAL</b>	<b>56.5</b>	<b>142.3</b>	<b>0.360</b>	<b>3.9</b>	<b>95,547.7</b>	<b>1,095,593.0</b>	<b>111,286.0</b>

**Mass Emissions Rate - Last Month for 5 Years per MWh**

		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
Oct. 2013	DH1	0.00000	1.57480			0.62382	10,666.0	1,016.0
	DH2	8.97457	1.44806			0.96958	112,251.0	11,878.0
	DHCT3	0.41494	0.41494			0.76660	6,181.0	482.0
	JRKCC1	0.01352	0.60835			0.76832	191,254.0	14,794.0

		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
Oct. 2014	DH1	0.00000	1.46648			0.61398	59,175.0	5,728.0
	DH2	0.98177	2.23994			1.03797	915,041.0	90,449.0
	DHCT3	0.00000	0.58997			0.80324	4,579.0	339.0
	JRKCC1	0.00667	0.45351			0.52531	265,053.0	29,988.0

		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
Oct. 2015	DH1	0.01082	1.29884			0.61313	190,622.0	18,478.0
	DH2	1.17283	3.30342			1.01805	256,525.0	25,852.0
	DHCT3	0.00000	0.00000			0.00000	0.0	0.0
	JRKCC1	0.00513	0.17693			0.48885	641,613.0	77,999.0

		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
Oct. 2016	DH1	0.00921	1.64780			0.69324	253,432.0	21,726.0
	DH2	0.00000	0.00000	0.000000	0.000	0.00000	0.0	0.0
	DHCT3	0.00000	0.26560			0.80810	10,240.0	753.0
	JRKCC1	0.00517	0.21952			0.47890	624,059.0	77,441.0

		SO <sub>2</sub> lbs per MW-hr net	NO <sub>x</sub> lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO <sub>2</sub> tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
Oct. 2017	DH1	0.01086	1.59618			0.76224	236,253.0	18,419.0
	DH2	1.48595	3.31968	0.000005	0.102	0.95575	708,646.0	75,911.0
	DHCT3	0.00000	0.00000			0.00000	0.0	0.0
	JRKCC1	0.00000	0.18872			0.52820	150,694.0	16,956.0

**2016 Emissions**

	<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> Rate (lb/mmBtu)</b>	<b>HTIP (mmBtu)</b>	<b>MW-hours</b>
DH1	2.7	161.4	NA	9.0	139,749.8	0.1340	2,349,851.0	202,123.0
DH2	349.5	737.6	2.917	29.3	683,555.8	0.2320	6,664,325.0	675,645.0
DHCT3	0.0	1.2	NA	0.3	4,737.4	0.0420	79,720.0	6,062.0
JRKCC1	2.0	83.8	NA	22.0	388,646.5	0.0260	6,539,729.0	796,347.0
<b>TOTAL</b>	<b>354.2</b>	<b>984.0</b>	<b>2.917</b>	<b>60.6</b>	<b>1,216,689.5</b>	<b>0.434</b>	<b>15,633,625.0</b>	<b>1,680,177.0</b>

**2016 Emissions per Net MW-hr**

	<b>SO<sub>2</sub> lbs/MW-hr</b>	<b>NO<sub>x</sub> lbs/MW-hr</b>	<b>Mercury (lbs)</b>	<b>PM (lbs)</b>	<b>CO<sub>2</sub> tons per MW-hr</b>
DH1	0.02672	1.59705	NA	0.08905	0.69141
DH2	1.03457	2.18340	0.00000432	0.08682	1.01171
DHCT3	0.00000	0.39591	0.000	0.09898	0.78149
JRKCC1	0.00502	0.21046	0.000	0.05525	0.488

**2017 (Jan-Oct)**

	<b>SO<sub>2</sub> (tons)</b>	<b>NO<sub>x</sub> (tons)</b>	<b>Mercury (lbs)</b>	<b>PM (tons)</b>	<b>CO<sub>2</sub> (tons)</b>	<b>SO<sub>2</sub> Rate (lb/MMBtu)</b>	<b>NO<sub>x</sub> Rate (lb/MMBtu)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
DH1	8.0	153.2			141,073.5			2,370,227.0	201,951.0
DH2	296.7	810.4	2.0	25.04	461,794.8			4,505,512.0	459,592.0
DHCT3	0.0	1.3			5,234.9			88,069.0	6,466.0
JRKCC1	1.3	54.2			264,460.9			4,450,060.0	550,309.0
<b>TOTAL</b>	<b>306.0</b>	<b>1,019.1</b>	<b>2.014</b>	<b>25.0</b>	<b>872,564.1</b>			<b>11,413,868.0</b>	<b>1,218,318.0</b>

**2017 (Jan-Oct.) Emissions per MW-hr**

	<b>SO<sub>2</sub> lbs/MW-hr</b>	<b>NO<sub>x</sub> lbs/MW-hr</b>	<b>Mercury (lbs)</b>	<b>PM (lbs)</b>	<b>CO<sub>2</sub> tons/MW-hr</b>	<b>SO<sub>2</sub> Rate (lb/MMBtu)</b>	<b>NO<sub>x</sub> Rate (lb/MMBtu)</b>	<b>HTIP (MMBtu)</b>	<b>GEN (MW-hours)</b>
DH1	0.07923	1.51720			0.69855			2,370,227.0	201,951.0
DH2	1.29115	3.52661	0.00000	0.10897	1.00479			4,505,512.0	459,592.0
DHCT3	0.00000	0.40210			0.80960			88,069.0	6,466.0
JRKCC1	0.00472	0.19698			0.48057			4,450,060.0	550,309.0

NOTE- Mercury and PM data is not available yet for DH1, CT3 and CC1.

Note: Some CT3 numbers are lower than last month. This is due to the unit not running and the actual quarterly fuel numbers were entered for the calculations.

**GREC 2016 Emissions**

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Quarter	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)
FL	Gainesville Renewable Energy Center	57241	BFB1		2016	1-4	ARP	1.308	0.0685	21.148

**GREC 2017 Emissions Quarter 1-3, January-September 2017**

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Quarter	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)
FL	Gainesville Renewable Energy Center	57241	BFB1		2017	1	ARP	2.169	0.07	39.92
FL	Gainesville Renewable Energy Center	57241	BFB1		2017	2	ARP	2.804	0.0628	47.65
FL	Gainesville Renewable Energy Center	57241	BFB1		2017	3	ARP	1.116	0.0641	18.314

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# LEGAL FEES

YEAR-to-DATE

VENDOR	Specialty	*	
		FY17 Year-to-Date	Pending for FY 2017
HOPPING GREEN & SAMS	Environment	\$ 49,931.53	
ORRICK HERRINGTON	Former Bond Counsel	\$ 25,779.75	\$ 520,000.00
HOLLAND & KNIGHT	Current Bond Counsel	\$ 166,722.50	\$ 212,500.00
BRYANT MILLER OLIVE	Current Disclosure Counsel	\$ 188,658.61	\$ -
BROAD & CASSEL	Former Disclosure Counsel	\$ 283.00	\$ -
WINSTON & STRAWN	GREC	\$ 2,853,465.15	
BALLER HERBST LAW GROUP	Telecommunications	\$ 5,600.00	\$ -
JOHN & HENGERER		\$ 3,298.75	\$ -
		\$ 3,293,739.29	\$ 732,500.00

\*Includes October 2017, which is the first month of FY18.



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# WATER/WASTEWATER

Production

Maintenance

Projects

# Water/Wastewater Monthly Dashboard

## Production

### Murphree Water Treatment Plant

	October 2017	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
Average Daily Flow	24.0	24.0	30	80%	
Peak Daily Flow	25.9	25.9	54	-	

### Main Street Water Reclamation Facility

	October 2017	FY to Date (mgd)	Permitted Capacity (mgd)		Status
Average Daily Flow	5.9	5.9	7.5		

### Kanapaha Water Reclamation Facility

	October 2017	FY to Date (mgd)	Permitted Capacity (mgd)		Status
Average Daily Flow	12.0	12	14.9		

### Water Reclamation Facilities (Combined)

	October 2017	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
Average Daily Flow	17.9	17.9	22.4	80%	

## Maintenance

### Wastewater Collections

	Oct 2017 (Miles)	FYTD	Monthly Goal (miles)	
Miles of gravity mains cleaned	5.3	5.3	7.5	
Miles of gravity mains TV inspected	5.1	5.1	7.5	

### Water Distribution & Wastewater Collections

	Oct 2017	FYTD	
Work orders, service orders completed	977	977	

## SSO Monthly Summary

	October	YTD	GOAL	
Sanitary Sewer Overflows	2	2	<16	