

STATE OF THE UTILITY

JULY 2017

OPERATIONS SUMMARY

CORPORATE SAFETY

ENVIRONMENTAL

REGULATORY

PERSONNEL

July 2017						
Safety			Employees			
	Current Month			Year to Date		
	First Aid	Recordable	DART	First Aid	Recordable	DART
Administration	0	0	0	0	0	0
WWW Systems	0	0	0	1	5	1
Energy Supply	1	0	0	2	1	1
Energy Delivery - Electric/Gas	0	0	0	2	10	5
GRUCom	0	0	0	0	0	0
Totals		0			16	
			Vehicles			
	Current Month			Year to Date		
	Miles Driven	Recordable	Preventable	Miles Driven	Recordable	Preventable
Administration	12,681	0	0	145,346	1	1
WWW Systems	80,714	1	1	763,703	7	2
Energy Supply	2,280	0	0	57,979	0	0
Energy Delivery - Electric/Gas	119,506	2	2	1,106,593	12	4
GRUCom	8,966	1	1	93,129	1	0
Totals	224,147	4		2,166,750	21	
Environmental						
	Current Month			Calendar Year to Date		
Notices of Violation	0			0		
Emissions						
DH1, DH2, DHCT3, JRKCC1						
	CO ₂ (tons)	149,454		542,767		
	NO _x (tons)	191		592		
	SO ₂ (tons)	48.8		158.1		
DH Unit 2 (only)						
	PM _{FILT} (tons)	7		15		
	Hg (lbs)	0.40		1.23		
Regulatory						
	Current Month			Year to Date		
NERC						
Notice of Violations	0			0		
Self Reports/Potential Violations	0			0		
Personnel						
	AUTHORIZED FTE	FILLED FTE	VACANCY			
GRU-Administration/ Community Relations	4.00	4.00	-			
GRU-Administration/ Elect Reliability Compliance	2.00	2.00	-			
GRU-Administration/ General Manager	9.00	7.00	2.00			
GRU-Administration/ Legal Services	1.00	1.00	-			
GRU-Customer Support Services	121.25	108.50	12.75			
GRU-Customer Support Services/ Business Services	6.00	5.00	1.00			
GRU-Customer Support Services/ Communications	5.00	5.00	-			
GRU-Energy Delivery	265.00	241.00	24.00			
GRU-Energy Supply	150.00	140.00	10.00			
GRU-Energy Supply/ District Energy	10.00	10.00	-			
GRU-Energy Supply/ Electric Environmental Permitting Compliance	4.00	4.00	-			
GRU-Finance	29.50	26.00	3.50			
GRU-GRUCom	39.00	34.00	5.00			
GRU-Information Technology	63.00	52.00	11.00			
GRU-Water/ Wastewater	169.00	158.00	11.00			
Grand Total	877.75	797.50	80.25			

Utility Advisory Board Monthly Report – FY 2017 Safety Data Summary

Employee Injuries	(DART – days away, restricted duty, temporary transfer)
10/25/2016	Employee bruised his left hip, shoulder and tailbone when he slipped on wet concrete (DART - restricted duty/transfer)
10/25/2016	Employee was opening a service door on a trac-hoe. He lost his balance and fell off the tracks to the ground, causing impact injury
10/26/2016	Employee sprained his left ankle while walking at the grass edge where it meets the sidewalk (DART - restricted duty/transfer)
12/16/2016	Employee was stopped at the red light when his pick-up truck was rear-ended causing pain in his neck/back
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1/12/2017	While responding to a service call, a contractor started verbally abusing the employee and then assaulted the employee
1/17/2017	Ratchet slipped off of a gas regulator bolt being tightened, pinching/cutting finger holding regulator
2/2/2017	While pushing down on a container repositioning tool, the tool slipped and he fell forward striking his head on the container causing a laceration above his right eye
2/8/2017	While responding with the vacuum truck to start removing coal from the bunker, an employee was injured when a surge of coal moved through the suction piping causing it to break and snatch the rope out of the employee's hand. The rope was tied to the suction hose and a piece of pipe that was placed in the hole. The employee was using the rope to help hold the pipe so it did not fall into the bunker. (DART - restricted duty/transfer)
2/14/2017	Employee strained right shoulder while shutting off a gas service (DART - restricted duty/transfer)
3/1/2017	Employee bitten multiple times by a pit bull dog; bites and abrasions to right arm and hand, left leg and abdomen (DART - lost days)
3/6/2017	Employee bitten twice in a confrontation with multiple dogs. Injury to his right leg and left hand/knuckle
3/16/2017	Employee received second degree burns to his lower left back when his shirt caught fire from the heat of a recently completed weld

5/10/2017 The employee stepped over a pipe and his foot landed on a loose bolt on the pad, which caused the employee to lose balance and sprain his right ankle. (DART – lost days)

5/19/2017 Employee was rear ended by a private driver and over the weekend experience pain in the right shoulder area as a result of the collision. (DART - restricted duty/transfer)

6/30/2017 Employee tripped and fell onto a log lying along the side of a house amongst some other scattered items, resulting in a cracked rib. Medication was prescribed.

7/11/2017 Employee applied sunscreen to head and later sprayed on bug repellent. As employee started to sweat from heat and humidity his eyes became irritated. Medication was prescribed.

Vehicle Accidents

(P) indicates preventable by our employee

10/17/2016	Employee had started to turn left into traffic and had to stop as oncoming traffic conditions changed and was rear ended by the driver behind him.
11/10/2016	While backing a GRU pick-up truck out of the parking space at a GRU facility, the vehicle's trailer ball hit the front bumper of an employee's parked personal vehicle. (P)
11/22/2016	Employee was merging into left turn lane and contacted another vehicle (P)
12/2/2016	Employee stopped in traffic and was rear ended by vehicle behind when person's foot came off of brake
12/16/2016	Employee was stopped at a red light when his pick-up truck was rear-ended. Employee was sent for medical follow-up.
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1/5/2017	Employee was backing out of parking spot and struck another vehicle's back bumper (P)
1/11/2017	Employee was driving a semi tanker south on Tower Road. A driver stopped in the median accelerated to merge in behind the truck, but struck the rear tires of the trailer. No injuries or damage to our vehicle. Minor damage to citizen's vehicle
3/15/2017	Employee was hit from behind while accelerating from a stop at a traffic light. The car that hit our vehicle had been rear ended causing it to accelerate into the GRU vehicle
3/27/2017	Employee hit an A/C condensing unit that was positioned at the edge of a narrow service drive behind business. Minor damage was done to the front left fender, and no damage was apparent to the A/C unit (P)
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4/6/2017	GRU vehicle was approaching an intersection and the vehicle in front stopped quickly. GRU vehicle rubbed against the back bumper of the vehicle in front as it came to rest. The only damage was a scratch to the back bumper of the private vehicle. (P)
4/10/2017	GRU vehicle was waiting in traffic to head North on I-75. Collision occurred behind our truck and trailer at the south bound I-75/Archer Rd intersection. One of the vehicles involved spun out of control and came to rest against the GRU trailer. Our unit was undamaged.
4/27/2017	GRU vehicle was in the process of making a left hand turn when the vehicle behind them made an attempt to pass prior to the turn, failing to yield to the GRU vehicle's turn signal. Private vehicle contacted GRU vehicle's front bumper, causing a dent and scuffing to the GRU bumper.

- 5/02/2017 Employee bumped into the vehicle ahead of him while trying to silence an Amber Alert alarm on his phone. Employee was easing forward, approaching a stop sign behind a couple of vehicles. There was minor damage to both vehicles, no injuries reported and employee was sent for follow-up drug testing (P)
- 5/19/2017 Employee was in stop and go traffic moving toward a traffic signal at 39th Avenue. Truck behind him had stopped and then thinking the traffic was moving again accelerated into the stationary GRU vehicle. Both vehicles had damage to their respective bumpers, and GRU employee was placed on light duty for pain in right shoulder area.
- 6/6/2017 Employee was traveling south on Main Street and stopped for a pedestrian crossing the street. The driver of the car behind him had looked down and did not see him stop. She struck our van in the rear end. There was minor damage to our vehicle, but more significant damage to hers. There were no injuries.
- 6/19/2017 Employee was traveling south on SW 69th Terrace, turning right onto SW 42nd Place. The driver turned too wide and collided with a citizen waiting at the stop sign. There were no injuries and the damage to both vehicles was minor. (P)
- 6/22/2017 Employee was traveling south on Main Street approaching University Ave. The driver stopped for traffic ahead, but the driver behind him was unable to stop due to bald tires. There were no injuries. Damage to our vehicle was minor. The citizen was issued two citations and tag seized.
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- 7/7/2017 Employee was pulling out of gated area and misjudged and damaged the passenger side of vehicle by contacting the gate. (P)
- 7/14/2017 Employee was backing up to complete a turn around on a dead end street when the hitch on the rear of his vehicle struck the front bumper of a parked vehicle causing minor damage. (P)
- 7/18/2017 Employee was backing up with the truck's tailgate down. He misjudged the distance behind him due to the extended length with the gate down, and backed into the side of another pick-up. (P)
- 7/25/2017 Employee was pulling out onto SW 34th street when our vehicle struck a pedestrian riding a bike that came across the intersection. (P)

CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

Customer Operations Metrics Summary July 2017

Active Accounts	Jul-17	YTD Gain/Loss	FY16
<i>Residential Contract Accounts</i>			
Total	89,816	951	88,865
Electric	83,467	793	82,674
Gas	33,037	238	32,799
Water	62,538	369	62,169
Wastewater	58,499	348	58,151
Telecomm	139	(14)	153

Active Accounts	Jul-17	YTD Gain/Loss	FY16
<i>Nonresidential Contract Accounts</i>			
Total	13,467	(126)	13,593
Electric	10,905	(129)	11,034
Gas	1,612	(8)	1,620
Water	5,880	27	5,853
Wastewater	4,638	34	4,604
Telecomm	340	26	314

New Installations	Jul-17	FY17 To Date	FY16
Electric	87	1416	1,638
Gas	30	340	589
Water	43	441	756
Wastewater	57	436	485
Telecomm	16	193	248

Residential Disconnects	Jul-17	FY17 To Date	FY16
Volume	1,274	12,369	14,593
Average Balance	\$244.24	\$243.60	\$247.00

Call Center Volume	Jul-17	FY17 To Date	FY16
Average Speed of Answer	0:07:58	0:04:30	0:07:04
CSR Calls	11,898	138,716	251,522
IVR Self Service	23,742	206,881	318,483
Total	35,640	345,597	570,005
IVR/Total	67%	60%	56%

Revenue Assurance	Jul-17	FY17 To Date	FY16
Referred to Collections	\$118,336.16	\$1,884,109.70	\$1,461,488.40
Recovered	\$75,840.64	\$526,043.30	\$361,420.79

Service Orders	Jul-17	FY17 To Date	FY16
Move Ins	13,552	85,310	137,265
Move Outs	17,106	88,326	132,836

Bills Generated	Jul-17	FY17 To Date	FY16
Paper Bills	99,426	1,025,272	1,300,894
eBills	14,016	160,148	179,960
Total	113,442	1,185,420	1,480,854
eBill/Total	12%	14%	12%

Average Res Bill Amounts	Jul-17	FY17 To Date	FY16
Electric (kWh)	1,049	756	840
Electric (\$)	\$153.74	\$113.11	\$126.96
Gas (Therms)	10	17	18
Gas (\$)	\$21.84	\$30.21	\$29.61
Water (kGals)	5	5	4
Water (\$)	\$30.54	\$31.97	\$27.47
Wastewater (kGals)	5	5	6
Wastewater(\$)	\$36.19	\$38.41	\$41.13

Payment Arrangements	Jul-17	FY17 To Date	FY16
Total	7,046	77,569	97,287

ENERGY DELIVERY

ELECTRIC T&D
SYSTEM RELIABILITY
GAS

ENERGY DELIVERY - UAB REPORT - JULY 2017

Durations Reliability Report Between 7/01/2017 and 7/31/2017

CUSTOMER DATA	RELIABILITY INDICIES		MONTHLY AVG GOAL
Monthly Average Customers Served(C)	95,917	Average Service Availability Index (ASAI)	99.9855%
Total Hours of Customer Demand	69,060,240	System Average Interruption Duration Index (SAIDI)	6.28 Mins. 4.5 Mins
Total Number of Outages	102	Customer Average Interruption Duration Index (CAIDI)	59.61 Mins 55 Mins
Total Number of Customers Affected (CI)	10,101	System average Interruption Frequency Index (SAIFI)	0.11 0.08
Total Customer Minutes Interrupted (CMI)	602,146		
Total Customer "Out Minutes"	10,603	Average Length of a Service Interruption (L-Bar)	103.95

Outage Duration Times

Average Hours 1
 Maximum Hours 9
 Minimum Hours 0

Cause of Outages

Cause	Overhead	Underground	Undetermined	Total
1. Weather	16	6	1	23
1. Vegetation	27	0	6	33
1. Animals	7	0	1	8
1. Foreign Interference	0	0	0	0
1. Human Cause	3	4	1	8
1. Undetermined	4	1	0	5
1. Equipment Failure	9	14	2	25
1. All Remaining Outages	0	0	0	0
Total	66	25	11	102

Durations Reliability Report Between 10/01/2016 and 7/31/2017

CUSTOMER DATA	RELIABILITY INDICIES		MONTHLY AVG GOAL
Monthly Average Customers Served(C)	95,917	Average Service Availability Index (ASAI)	99.9925%
Total Hours of Customer Demand	697,508,424	System Average Interruption Duration Index (SAIDI)	32.64 Mins 4.5 Mins
Total Number of Outages	656	Customer Average Interruption Duration Index (CAIDI)	42.58 Mins 55 Mins
Total Number of Customers Affected (CI)	73,530	System average Interruption Frequency Index (SAIFI)	0.77 0.08
Total Customer Minutes Interrupted (CMI)	3,130,914		
Total Customer "Out Minutes"	72,912	Average Length of a Service Interruption (L-Bar)	111.15 Mins

Outage Duration Times

Average Hours 1
 Maximum Hours 10
 Minimum Hours 0

Cause of Outages

Cause	Overhead	Underground	Undetermined	Total
1. Weather	48	12	3	63
1. Vegetation	154	10	36	200
1. Animals	68	12	9	89
1. Foreign Interference	1	1	0	2
1. Human Cause	22	16	11	49
1. Undetermined	21	8	2	31
1. Equipment Failure	46	99	23	168
1. All Remaining Outages	0	0	0	0
Total	360	158	84	602

ENERGY DELIVERY - UAB REPORT - JULY 2017

Energy Delivery - Major Design Projects - Electric

Major Electric Design Projects underway:

- > Butler Plaza Town Center
- > Review for Boulevard Station, Butler Fire Station
- > Blues Creek Unit 7 – 16 residential units
- > Relocate Switchgear [at Holiday Inn] for roadway re-construction SW 43/32nd Street
- > The Windsor of Gainesville NW 83 St & 39th Ave – (Nursing Home)
- > 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)
- > Butler Plaza Town Center Lights
- > Blues Creek Unit 5 PH 2&3 (Residential S/D, 50 lots)
- > Westchester PH 4B – 77 Single Family Lots
- > 43rd/53rd - Retail Development - Old Systems Control Building
- > SW 4th Ave OH to UG Conversion
- > Gainesville Airport (OH Primary Relocation)

ENERGY DELIVERY - UAB REPORT - JULY 2017

Energy Delivery - Major Construction Projects - Gas

Major Gas Design Projects:

- > Completed plan reviews on Gamma Phi Beta Sorority PR2 (Not Approved), Exactech Expansion PR4 (Approved), Sabal Oaks Minor S/D PR1 (Not Approved), Newberry Park TND PR1 (Not Approved), 5500 Building PR2 (Approved) and Regency Oaks Apartment Fire Water Supply PR 1 (Not Approved), Mayfair Apt RF1 (Approved), Celebration Pointe PR2 (Approved) and Villas at Buckridge S/D PR 3 (Approved).
- > Attended FDOT preconstruction meeting for the Archer Road (SR 24) from SW 40th Blvd to SW 16th Ave re-surfacing project.
- > County permits approved for gas main extensions at The Windsor on NW 83th St, 211 ft and Millhopper Road in support of the NW 77th St Hardwood Farms S/D (580 ft).

Gas Division Activities in June 2017

- 1 Submitted work orders to Construction for gas main extensions at The Windsor on NW 83th
- 2 Gas Construction, Engineering and Marketing reviewing options to extend gas service into Newberry.
- 3 Gas Main Installation for Staybridge Hotel is complete.
- 4 Gas Main Installation in Oakmont Ph 2 - should finish next week
- 5 We have been working on and off in the Butler Town Center and Celebration Point as construction is on-going in both of these projects.
- 6 Gas Main Installation for new Shands facility on NW 39th Ave. is complete.
- 7 Gas Main Installation on NW 1st Ave (CRA Project).
- 8 Gas Main Installation in Oakmont Phase 2 (2937' of main) - should finish next week.
- 9 We completed several minor main extensions for new residential customers.
- 10 Gas Main Installation in Town of Tioga Subdivision PH 17 off SW 136th St. - should finish
- 11 We began the annual gas leak survey. We have two men walk (with flame-packs) 20% of the system, additionally the business area gets surveyed annually. This is approximately a three month project.
- 12 Began Gas Main Installation in Chestnut Plantation Subdivision.
- 13 We are using a replacement project primarily on NW 3rd St (near Univ. Ave.) as fill in work. When completed, we will have removed approximately 1.5 Miles of old black plastic and

New Services installed in July: 29 - New Customer work/Not replacement work

ENERGY DELIVERY - UAB REPORT - JULY 2017

Electric System Consumption

ELECTRIC SYSTEM	CONSUMPTION	CUSTOMERS
Feed-In-Tariff - Residential	63 KWH	102
Feed-In-Tariff - General Service	2,543 KWH	157
Electric - GS - Demand - Regular	55,674,388 KWH	1,202
Electric - General Service Demand PV	767,977 KWH	18
GREC Startup Supplemental and Standby	399,157 KWH	1
Electric - GS - Kanapaha w Curtail Cr	907,200 KWH	1
Electric - GS - Demand - Large Power	7,571,240 KWH	9
Electric - GS - Murphree Curtail Credit	1,315,200 KWH	1
Electric - GS Large Demand PV	1,137,600 KWH	1
Electric - GS - Non Demand	18,175,826 KWH	9,667
Electric - General Service PV	121,544 KWH	49
Electric - Lighting - Rental	1,008,140 KWH	4,329 <i>n</i>
Electric - Lighting - Street - City	792,903 KWH	14 <i>n</i>
Electric - Lighting - Street - County	299,693 KWH	2 <i>n</i>
Electric - Lighting - Traffic	4,542 KWH	2 <i>n</i>
Electric - Residential - Non TOU	88,090,803 KWH	86,628
Electric - Residential PV	221,634 KWH	202
Total Retail Electric (<i>n</i> =not included in total)	<u>176,490,453 KWH</u>	<u>98,038</u>
City of Alachua	13,536,000 KWH	26,600 KW
City of Winter Park	7,440,000 KWH	10,000 KW
Total (Native) Electric	197,466,453 KWH	

ENERGY DELIVERY - UAB REPORT - JULY 2017

Gas System Consumption

GAS SYSTEM

Gas - GS - Regular Service (Firm)	601,086 THM	1,372
Gas - GS - Regular Service (Small)	8,501 THM	256
Gas - GS - Interruptible - Regular Serv	40,376 THM	1
Gas - GS - Interruptible - Large Volume	309,818 THM	6
Gas - Residential - Regular Service	308,706 THM	33,668
Total Retail Gas	<u>1,268,487 THM</u>	<u>35,303</u>
Gas - GS - UF Cogeneration Plant	3,220,736 THM	1
Gas - Residential - LP - Basic Rate	2,221 GAL	195
GREC Gas (PGA Only)	100 THM	1

ENERGY SUPPLY

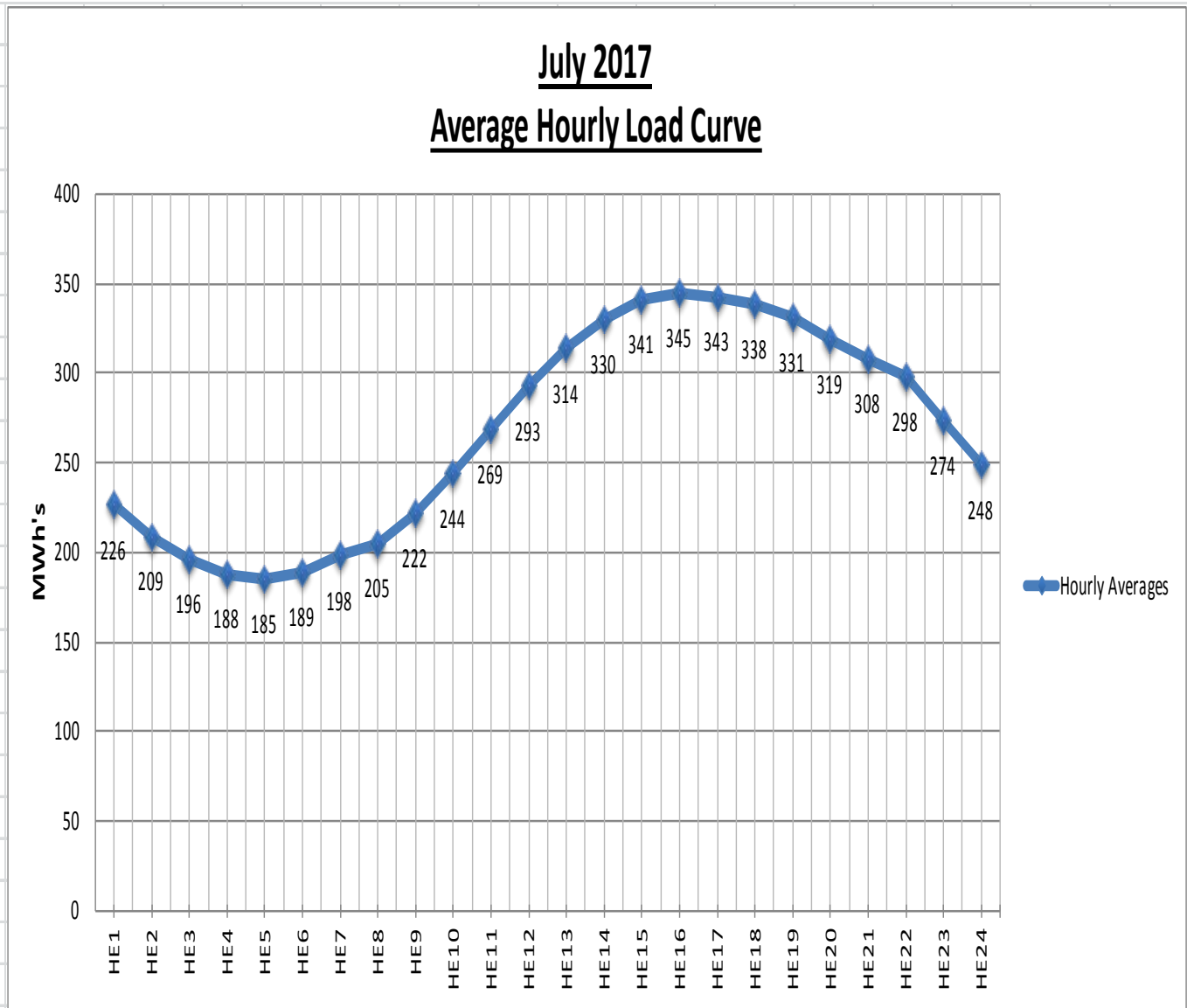
SYSTEM STATISTICS

ENERGY DISTRIBUTION

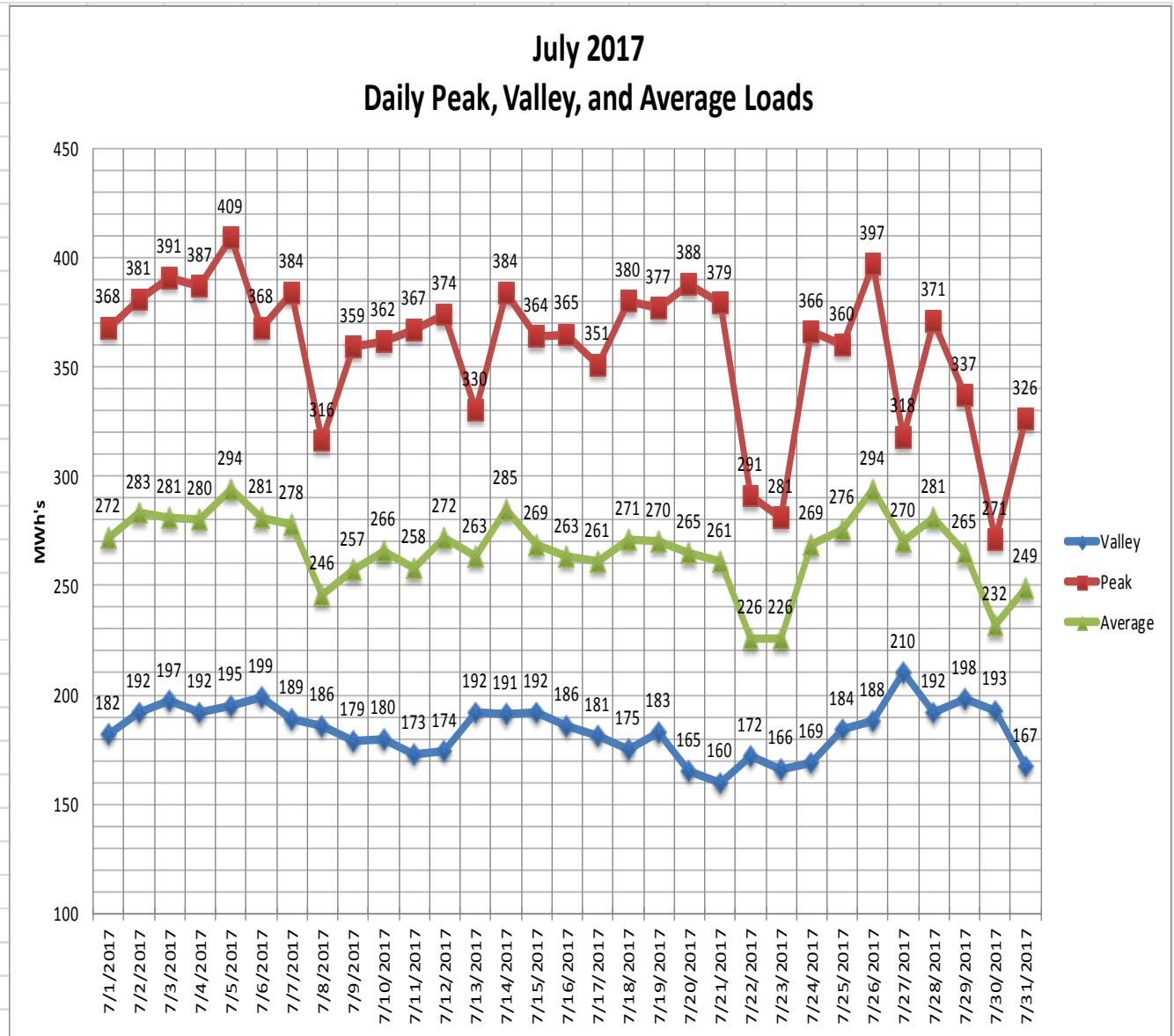
FUEL

Energy Supply - July 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					
		Month	YTD	Budget YTD	Delta Budget
Source					
	DH-2	78,306	213,298	603,197	(389,899)
	DH-1	18,390	187,436	62,691	124,745
	Kelly CC	76,646	613,860	730,664	(116,804)
	CT's	173	7,025	3,769	3,256
	Grid	20,000	355,803	144,928	210,875
	GREC	-	202,747	37,012	165,735
Average Energy Distribution Curve					
Curve 1 is the hourly distribution of load averages over the month (Pg 18)					
Curve 2 is peak load per day (Pg 19)					

Hour Ending	Ave. Load
HE1	226
HE2	209
HE3	196
HE4	188
HE5	185
HE6	189
HE7	198
HE8	205
HE9	222
HE10	244
HE11	269
HE12	293
HE13	314
HE14	330
HE15	341
HE16	345
HE17	343
HE18	338
HE19	331
HE20	319
HE21	308
HE22	298
HE23	274
HE24	248



Date	Valley	Peak	Ave
7/1/2017	182	368	272
7/2/2017	192	381	283
7/3/2017	197	391	281
7/4/2017	192	387	280
7/5/2017	195	409	294
7/6/2017	199	368	281
7/7/2017	189	384	278
7/8/2017	186	316	246
7/9/2017	179	359	257
7/10/2017	180	362	266
7/11/2017	173	367	258
7/12/2017	174	374	272
7/13/2017	192	330	263
7/14/2017	191	384	285
7/15/2017	192	364	269
7/16/2017	186	365	263
7/17/2017	181	351	261
7/18/2017	175	380	271
7/19/2017	183	377	270
7/20/2017	165	388	265
7/21/2017	160	379	261
7/22/2017	172	291	226
7/23/2017	166	281	226
7/24/2017	169	366	269
7/25/2017	184	360	276
7/26/2017	188	397	294
7/27/2017	210	318	270
7/28/2017	192	371	281
7/29/2017	198	337	265
7/30/2017	193	271	232
7/31/2017	167	326	249



MAJOR ENERGY SUPPLY PROJECTS/MILESTONES UPDATES:

1. For South Energy Center Phase 2 project we have tested the new Wartsila Engine, including emission testing. All performance metrics were either met or exceeded, and no abnormal emissions noted. We are awaiting final report on engine.
 - a. While testing the SEC Phase 2 new 3 MW Caterpillar Diesel Engine on week of 7/24/2017, we had a radiator hose separated at coupling. Test was secured and Root Cause Analysis (RCA) for failure is still in progress. Subsequent testing will be determined once we review RCA and agree with vendor (Ring Power) on retest plan.
2. For Deerhaven Unit #1 we are the planning stages for a Short Duration Outage (SDO) September 2 through 26, 2017 to repair a turbine steam chest intermittent leak.

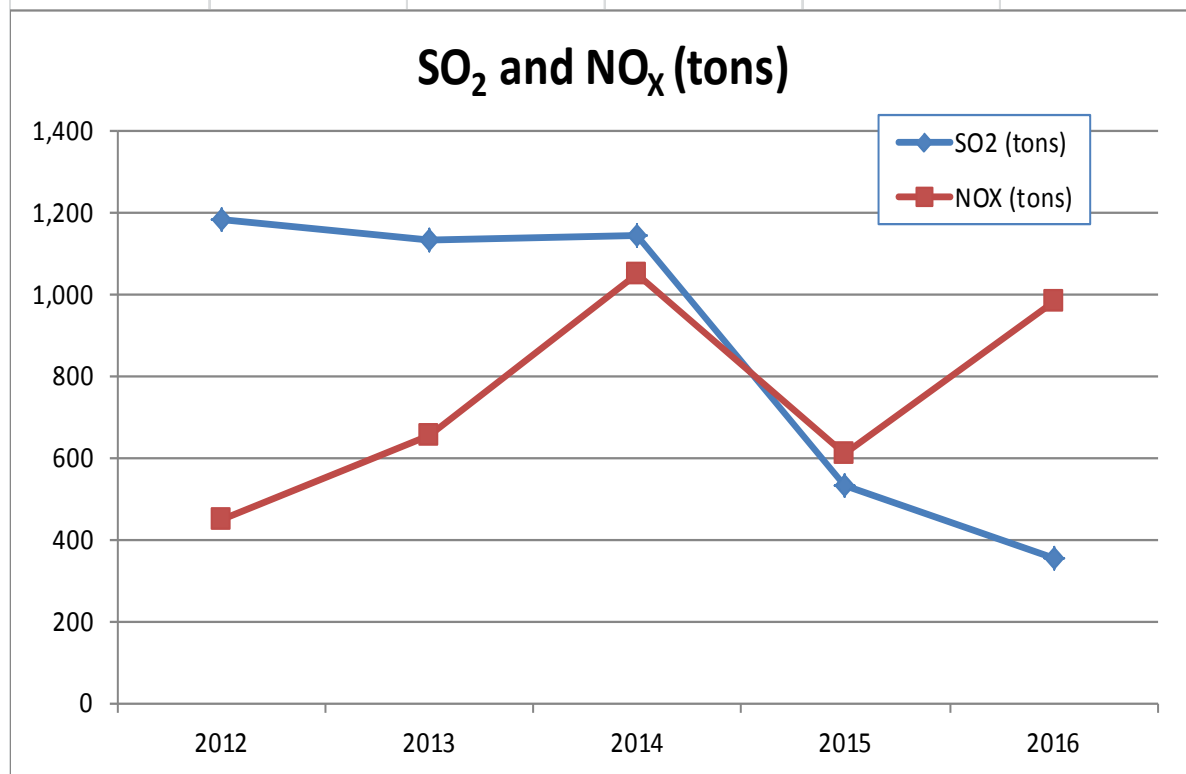
ENVIRONMENTAL PERMITTING

Emissions Data

Yearly Emissions - 5 Year Comparison

	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (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	29	1,216,690

2016 Mercury and particulate values are for Unit 2 only. The other units' values are not available yet.

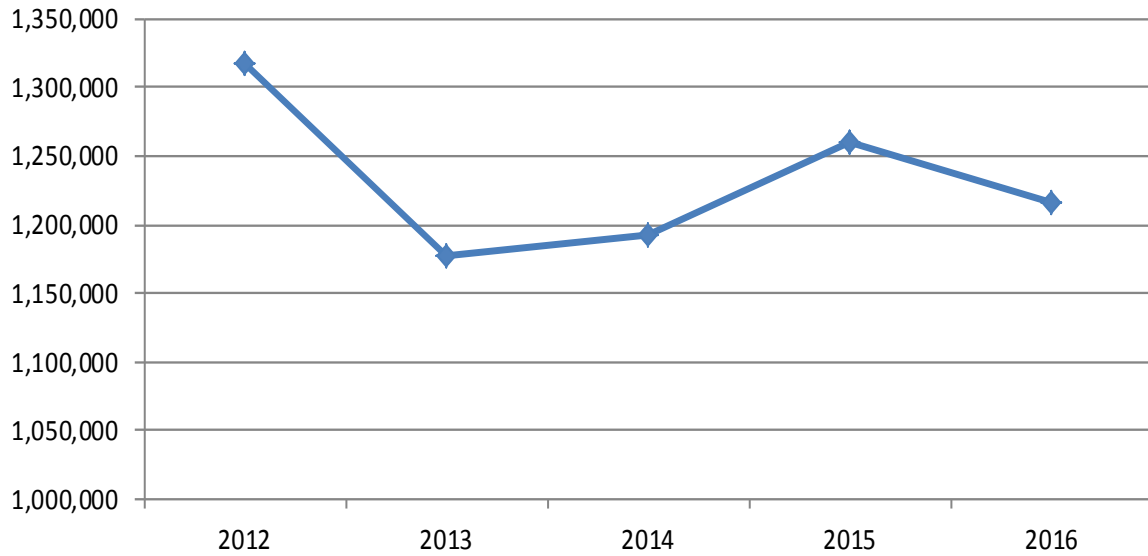


SO₂ was lower in 2015 and 2016 due to higher removal rate settings to assure compliance with the MATS Rule.

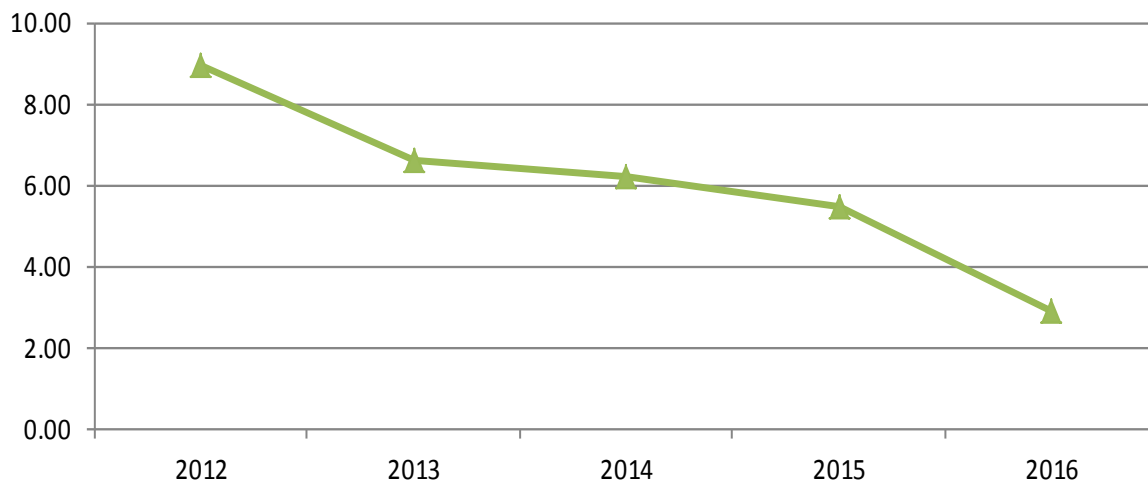
NO_x was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate.

Yearly Emissions - 5 Year Comparison

CO₂ (tons)



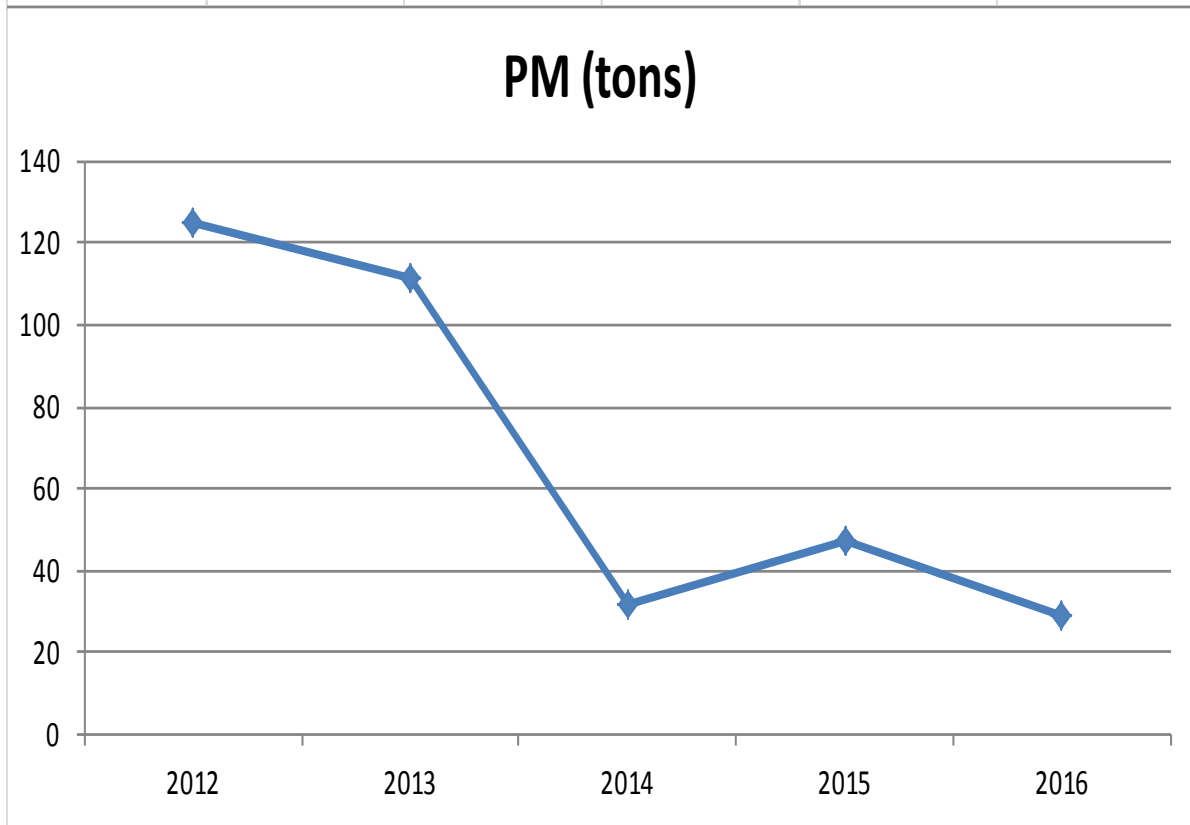
Mercury (lbs)



2016 Mercury values are for Unit 2 only. The other units' values are not available yet.

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

Yearly Emissions - 5 Year Comparison



Mass Emissions - 5 Year Comparison

		SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
July. 2013		85.2	64.3			142,818	1,648,631	151,645
July. 2014		146.1	119.6			140,656	1,467,199	141,118
July. 2015		72.9	36.9			132,160	1,441,871	146,776
July. 2016		49.9	109.7	0.6	2.3	155,051	1,884,037	192,081
July. 2017		48.8	191.0	0.4	7.4	149,454	1,854,081	188,133
		SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
July. 2013	DH1	0.0	1.1			1,027.6	17,290.0	1,481.0
	DH2	84.9	55.7			106,563.9	1,038,643.0	102,547.0
	DHCT3	0.1	0.2			605.2	10,149.0	738.0
	JRKCC1	0.2	7.3			34,620.9	582,549.0	46,879.0
	TOTAL	85.2	64.3	0.000	0.00	142,817.6	1,648,631.0	151,645.0
		SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
July. 2014	DH1	0.0	0.0			0.0	0.0	0.0
	DH2	146.0	114.4			127,053.4	1,238,327.0	116,116.0
	DHCT3	0.0	0.1			337.9	5,683.0	408.0
	JRKCC1	0.1	5.1			13,264.2	223,189.0	24,594.0
	TOTAL	146.1	119.6	0.000	0.00	140,655.5	1,467,199.0	141,118.0
		SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
July. 2015	DH1	0.0	6.1			5,915.1	99,537.0	9,318.0
	DH2	72.8	24.7			110,472.8	1,076,948.0	108,714.0
	DHCT3	0.0	0.1			348.9	5,873.0	454.0
	JRKCC1	0.1	6.0			15,423.3	259,513.0	28,290.0
	TOTAL	72.9	36.9	0.000	0.00	132,160.1	1,441,871.0	146,776.0
		SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
July. 2016	DH1	0.1	17.8			15,524.0	261,227.0	22,016.0
	DH2	49.6	84.0	0.60	2.34	102,396.9	998,030.0	92,877.0
	DHCT3	0.0	0.0			78.4	1,315.0	100.0
	JRKCC1	0.2	7.9			37,051.7	623,465.0	77,088.0
	TOTAL	49.9	109.7	0.595	2.34	155,051.0	1,884,037.0	192,081.0
		SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
July. 2017	DH1	0.2	16.2			15,311.5	257,631.0	20,428.0
	DH2	48.4	167.3	0.368	7.381	93,936.6	919,908.0	91,338.0
	DHCT3	0.0	0.1			179.9	3,027.0	187.0
	JRKCC1	0.2	7.4			40,025.7	673,515.0	76,180.0
	TOTAL	48.8	191.0	0.368	7.4	149,453.7	1,854,081.0	188,133.0

Mass Emissions Rate - 5 Year Comparison Per MWh								
		SO ₂ lbs per MW-hr net	NO _x lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO ₂ tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2013	DH1	0.00000	1.48548			0.69386	17,290.0	1,481.0
	DH2	1.65583	1.08633			1.03917	1,038,643.0	102,547.0
	DHCT3	0.27100	0.54201			0.82005	10,149.0	738.0
	JRKCC1	0.00853	0.31144			0.73852	582,549.0	46,879.0
		SO ₂ lbs per MW-hr net	NO _x lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO ₂ tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2014	DH1	0.00000	0.00000			0.00000	0.0	0.0
	DH2	2.51473	1.97044			1.09419	1,238,327.0	116,116.0
	DHCT3	0.00000	0.49020			0.82819	5,683.0	408.0
	JRKCC1	0.00813	0.41474			0.53933	223,189.0	24,594.0
		SO ₂ lbs per MW-hr net	NO _x lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO ₂ tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2015	DH1	0.00000	1.30929			0.63480	99,537.0	9,318.0
	DH2	1.33929	0.45440			1.01618	1,076,948.0	108,714.0
	DHCT3	0.00000	0.44053			0.76850	5,873.0	454.0
	JRKCC1	0.00707	0.42418			0.54519	259,513.0	28,290.0
		SO ₂ lbs per MW-hr net	NO _x lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO ₂ tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2016	DH1	0.00908	1.61701			0.70512	261,227.0	22,016.0
	DH2	1.06808	1.80884	0.000006	0.050	1.10250	998,030.0	92,877.0
	DHCT3	0.00000	0.00000			0.78400	1,315.0	100.0
	JRKCC1	0.00519	0.20496			0.48064	623,465.0	77,088.0
		SO ₂ lbs per MW-hr net	NO _x lbs per MW-hr net	Hg lbs per MW-hr net	PM lbs per MW-hr net	CO ₂ tons per MW-hr net	HTIP (MMBtu)	GEN (Net MW-hours)
June. 2017	DH1	0.01958	1.58606			0.74953	257,631.0	20,428.0
	DH2	1.05980	3.66332	0.000004	0.162	1.02845	919,908.0	91,338.0
	DHCT3	0.00000	1.06952			0.96203	3,027.0	187.0
	JRKCC1	0.00525	0.19428			0.52541	673,515.0	76,180.0

2016 Emissions								
	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)	NO _x Rate (lb/mmBtu)	HTIP (mmBtu)	MW-hours
DH1	2.7	161.4	NA	NA	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	NA	4,737.4	0.0420	79,720.0	6,062.0
JRKCC1	2.0	83.8	NA	NA	388,646.5	0.0260	6,539,729.0	796,347.0
TOTAL	354.2	984.0	2.917	29.3	1,216,689.5	0.434	15,633,625.0	1,680,177.0
2016 Emissions per Net MW-hr								
	SO ₂ lbs/MW-hr	NO _x lbs/MW-hr	Mercury (lbs)	PM (lbs)	CO ₂ tons per MW-hr			
DH1	0.02672	1.59705	NA	NA	0.69141			
DH2	1.03457	2.18340	0.00000432	0.08682	1.01171			
DHCT3	0.00000	0.39591	0.000		0.78149			
JRKCC1	0.00502	0.21046	0.000	NA	0.488			

2017 (Jan-July)									
	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)	SO ₂ Rate (lb/MMBtu)	NO _x Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	7.4	111.4			101,329.2			1,701,675.0	145,759.0
DH2	149.8	439.4	1.2	15.29	250,328.9			2,447,233.0	249,719.0
DHCT3	0.0	1.2			4,858.7			81,740.0	5,993.0
JRKCC1	0.9	40.1			186,250.4			3,134,038.0	386,211.0
TOTAL	158.1	592.1	1.228	15.3	542,767.2			7,364,686.0	787,682.0

Note: DH1 SO₂ value is lower than previous listed in April, May and June due to receiving the actual analytical sulfur value and recalculating using this new value verses substituted data.

2017 (Jan-July) Emissions Per MWh									
	SO ₂ lbs/MW-hr	NO _x lbs/MW-hr	Mercury (lbs)	PM (lbs)	CO ₂ tons/MW-hr	SO ₂ Rate (lb/MMBtu)	NO _x Rate (lb/MMBtu)	HTIP (MMBtu)	GEN (MW-hours)
DH1	0.10154	1.52855			0.69518			1,701,675.0	145,759.0
DH2	1.19975	3.51916	0.00000	0.12248	1.00244			2,447,233.0	249,719.0
DHCT3	0.00000	0.40047			0.81073			81,740.0	5,993.0
JRKCC1	0.00466	0.20766			0.48225			3,134,038.0	386,211.0

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

GREC 2016 Emissions

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)	CO2 (short tons)	Heat Input (MMBtu)
FL	Gainesville Renewable Energy Center	57241	BFB1		2016	ARP	1.308	0.0685	21.148	65829.75	634316.337

GREC 2017 Emissions Quarter 1, January-March 2017

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)	CO2 (short tons)	Heat Input (MMBtu)
FL	Gainesville Renewable Energy Center	57241	BFB1		2017	ARP	2.169	0.070	39.92	121746.1	1168275.9

GREC 2017 Emissions Quarter 2, April-June 2017

State	Facility Name	Facility ID (ORISPL)	Unit ID	Associated Stacks	Year	Program(s)	SO2 (tons)	Avg. NOx Rate (lb/MMBtu)	NOx (tons)	CO2 (short tons)	Heat Input (MMBtu)
FL	Gainesville Renewable Energy Center	57241	BFB1		2017	ARP	2.804	0.063	47.65	158148.8	1515432.9

LEGAL FEES

YEAR-to-DATE

VENDOR	SPECIALITY	\$ Spent FY17
1000963 HOPPING GREEN & SAMS	Environment	\$ 39,351.53
1001111 ORRICK HERRINGTON	Bond Counsel	\$ 17,641.40
1001204 HOLLAND & KNIGHT	Bond Counsel	\$ 20,450.00
1005092 BRYANT MILLER OLIVE	Disclosure Counsel	\$ 23,323.30
1001936 BROAD & CASSEL	Disclosure Counsel	\$ 283.00
1001350 WINSTON & STRAWN	GREC	\$ 2,594,056.82
1000983 BALLER HERBST LAW GROUP	Telecommunications	\$ 5,600.00
1001076 JOHN & HENGERER	Energy	\$ 2,388.75
		\$ 2,703,094.80

WATER/WASTEWATER

Production

Maintenance

Projects

Water/Wastewater Monthly Dashboard

Production

Murphree Water Treatment Plant

		July 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.6	23.3	30	78%	
	Peak Daily Flow	25.5	32.2	54	-	

Main Street Water Reclamation Facility

		July 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)		Status
	Average Daily Flow	8.8	6.1	7.5		

Kanapaha Water Reclamation Facility

		July 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)		Status
	Average Daily Flow	12.2	11	14.9		

Water Reclamation Facilities (Combined)

		July 2017 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	21.0	17.1	22.4	76%	

Maintenance

Wastewater Collections

		July 2017 (Miles)	FYTD	Monthly Goal (miles)	
	Miles of gravity mains cleaned	10.6	51.6	7.5	
	Miles of gravity mains TV inspected	6.1	55.9	7.5	

Water Distribution & Wastewater Collections

		July 2017	FYTD		
	Work orders, service orders completed	1260	13,643		

SSO Monthly Summary

		July	YTD	GOAL	
	Sanitary Sewer Overflows	3	23	<16	

Major Water/Wastewater Projects

Electrical System Upgrade at MWTP - Surveying and shop drawing review is well underway. The contractor Ortega is mobilized on-site.

Manhole Lining - Over 350 manholes lined this year				
Gravity Sewer Lining - Over 10 miles of gravity main lining this year				
Tower Oaks water service replacement project underway				
Lift Station 40 GM and FM - Complete				
Golfview water replacements & sewer lining - Complete				