

STATE OF THE UTILITY

Item #181025

April 2019

OPERATIONS SUMMARY

CORPORATE SAFETY

ENVIRONMENTAL

REGULATORY

PERSONNEL

April 2019

Safety

Employees

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

	Year to Date		
	First Aid	Recordable	DART
	1	3	3
	4	6	1
	0	0	0
	4	7	3
	0	0	0
Totals		16	

Vehicles

	Current Month		
	Miles Driven	Recordable	Preventable
Administration	0	0	0
W/WW Systems	0	2	2
Energy Supply	0	0	0
Energy Delivery - Electric/Gas	0	1	1
GRUCom	0	0	0
Totals	0	3	

	Year to Date		
	Miles Driven	Recordable	Preventable
	89,489	0	0
	466,803	8	6
	35,165	0	0
	588,212	6	5
	51,389	0	0
Totals	1,231,058	14	

March Mileage not yet reported

YTD through March

Environmental

	Current Month
Notices of Violation	0

Calendar Year to Date
0

Emissions
DH1, DH2, DHCT3, JRKCC1

CO ₂ (tons)	100,753
NO _x (tons)	147
SO ₂ (tons)	61

320,911
506
212.8

DH Unit 2 (only)

PM _{FILT} (tons)	5
Hg (lbs)	0.35

18
1.77

DHR

CO ₂ (tons)	44,881
NO _x (tons)	13
SO ₂ (tons)	1

292,975
87
5.3

Regulatory

NERC

Notice of Violations	1
Self Reports/Potential Violations	1

FY to Date
6
6

Personnel

Row Labels	Sum of AUTHORIZED_FTE	Sum of FILLED_FTE	Sum of VACANCY	Last Month
Administration	15.00	13.00	2.00	2.00
Chief Operating Officer	20.00	18.00	2.00	1.00
Customer Support Services	118.25	110.00	8.25	5.25
Energy Delivery	264.00	247.00	17.00	20.00
Energy Supply	145.00	146.00	-1.00	0.00
Energy Supply - District Energy	10.00	10.00	0.00	0.00
Finance	43.00	29.00	14.00	18.00
GRUCom	38.00	29.00	9.00	9.00
Information Technology	66.00	53.00	13.00	13.00
IT Governance & Compliance	5.00	5.00	0.00	0.00
Water Wastewater	168.00	158.00	10.00	11.00
Grand Total	892.25	818.00	74.25	79.25

Utility Advisory Board Monthly Report – FY 2019 Safety Data Summary

Employee Injuries (DART – days away, restricted duty, temporary transfer)

OCTOBER

- 10/08/2018 An employee was struck on both hands when a bathroom paper towel dispenser cover fell. Both hands were injured. (DART – restricted duty)
- 10/17/2018 While changing out a ball valve in a water line under pressure, the employee cut his finger on an old galvanized fitting.
- 10/21/2018 A line worker was injured during mutual aid assignment in the Panhandle. He suffered second degree burns on his left hand from an arc flash while he was cutting an energized 120V service line. (DART Lost time)
- 10/31/2018 While putting away boxes of piping elbows, employee felt a slight pull in her lower back. Employee sought medical treatment on 11/2/18.

NOVEMBER

- 11/09/2018 Employee was bitten by a dog on his left wrist while in a yard reading meters.

DECEMBER

- 12/06/18 Employee slipped on some oil on the concrete floor and injured his right knee.
- 12/19/18 While prying open a valve box, debris was thrown around his safety glasses and into his eyes causing irritation

JANUARY

- 1/7/19 While carrying materials to another department, employee struck her left hand, fracturing the hand. (late report) (DART Lost time)
- 1/11/19 Unknown debris blew into a meter reader's right eye, causing irritation.
- 1/27/19 Working at the headworks to remove a stoppage exposed employee's eyes to aerosols causing eye irritation

FEBRUARY

- 2/25/19 Employee was bitten by a dog on left leg while in yard reading meters.

MARCH

- 3/1/19 Employee chipped tooth when wrench slipped while loosening bolt.
- 3/10/19 Employee sprained ankle stepping down from derrick control station into truck bed
- 3/18/19 Debris was blown into employee's right eye, causing abrasion of the cornea.
- 3/28/19 While working on the belt thickener, wind-blown dust/debris got into employee's eyes causing irritation.

April

4/9/19

Employee fell off a pipe trailer and fractured his left wrist when he tried to catch his fall with his hand. (DART – Lost time)

End of FY 2019

Utility Advisory Board Monthly Report – FY 2019 Vehicle Collision Summary

Vehicle Collisions (P) indicates preventable by our employee

OCTOBER

10/02/2018 Backing out of a long wooded drive vehicle caught on a downed tree branch that was lying beside the drive damaging the front bumper and air dam (P)

10/15/2018 While a GRU employee was driving into work, another car collided with a deer, which was then thrown into the windshield of his GRU truck.

10/30/2018 While driving in the Plant to speak to an operator, the employee made a left-hand turn and scraped a concrete bollard with his truck. (P)

NOVEMBER

11/19/2018 Employee was driving a tractor trailer and as he made the turn off of Main Street onto 16th avenue, the rear drivers tire on the trailer struck the front bumper on a vehicle that was stopped in the south bound turn lane causing damage. (P)

DECEMBER

12/20/2018 While pulling into a drive-through lane, the intern scraped the driver's side of the pick-up bed on a bollard. (P)

12/20/2018 Pulling onto road employee drove over a culvert, damaging the lower front bumper and air dam (P)

JANUARY

1/8/2019 While driving into work, a deer ran out of the woods. While the driver saw the deer and braked, the deer still ran into the side of the truck.

1/10/2019 While moving into the right-turn lane, a dump truck came off a ridge in the pavement and left the right side of the roadway and into the ditch. Once the truck stopped, it rolled over onto its right side causing damage to the truck. (P)

1/15/2019 While pulling a pick-up truck next to a fire hydrant to deflect the water stream from flow testing, an intern scraped the side of the truck on the hydrant nozzle, causing minor body damage (P)

1/23/2019 While stopped in traffic on SW 75th Street, the GRU vehicle was rear-ended.

MARCH

3/29/2019 Employee was backing a GRU vehicle into a parking space when a private vehicle cut behind, scraping the GRU bumper as it passed by. (P)

APRIL

- 4/21/2019 Employee was headed N. on 225 and a private vehicle ahead was turning right. GRU vehicle impacted the rear bumper of the private vehicle as it was turning. (P)
- 4/28/2019 While responding to Lift Station 123, employee took a right-hand turn too tightly and damaged the right rear wheel on a stormwater invert. (P)

End of FY 2019

CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

Customer Operations Metrics Summary April 2019

Active Accounts	Apr-19	YTD Gain/Loss	FY18
<i>Residential Contract Accounts</i>			
Total	91,322	342	90,980
Electric	84,633	230	84,403
Gas	33,724	284	33,440
Water	63,343	238	63,105
Wastewater	59,228	216	59,012
Telecomm	125	(4)	129

Active Accounts	Apr-19	YTD Gain/Loss	FY18
<i>Nonresidential Contract Accounts</i>			
Total	13,563	81	13,482
Electric	10,987	52	10,935
Gas	1,661	18	1,643
Water	5,883	36	5,847
Wastewater	4,664	30	4,634
Telecomm	380	14	366

New Installations	Apr-19	FY19 To Date	FY18
Electric	65	642	1512
Gas	33	289	463
Water	41	343	558
Wastewater	36	316	566
Telecomm	7	57	120

Residential Disconnects	Apr-19	FY19 To Date	FY18
Volume	1,224	8,489	15,305
Average Balance	\$227.91	\$246.73	\$250.07

Call Center Volume	Apr-19	FY19 To Date	FY18
Residential ASA	3:08	0:07:30	0:10:59
Business ASA	2:09	0:02:55	0:04:19
CSR Calls	14,804	87,405	142,989
CSR Callbacks	276	10,414	25,780
IVR Self Service	25,157	138,601	266,463
Total	39,961	226,006	409,452
IVR/Total	63%	61%	65%

Revenue Assurance	Apr-19	FY19 To Date	FY18
Referred to Collections	\$110,743.10	\$1,362,042.13	\$1,783,116.51
Recovered	\$63,341.56	\$492,086.66	\$786,025.11

Service Orders	Apr-19	FY19 To Date	FY18
Move Ins	6,778	46,863	116,784
Move Outs	7,041	46,666	116,307

Bills Generated	Apr-19	FY19 To Date	FY18
Paper Bills	111,171	752,052	1,276,432
eBills	18,859	124,435	200,984
Total	130,030	876,487	1,477,416
eBill/Total	15%	14%	14%

Average Res Bill Amounts	Apr-19	FY19 To Date	FY18
Electric (kWh)	628	728	812
Electric (\$)	\$93.03	\$106.14	\$118.11
Gas (Therms)	19	26	21
Gas (\$)	\$33.08	\$41.14	\$34.13
Water (kGals)	5	5	5
Water (\$)	\$30.78	\$29.49	\$30.34
Wastewater (kGals)	5	5	5
Wastewater(\$)	\$36.81	\$37.30	\$36.86

Payment Arrangements	Apr-19	FY19 To Date	FY18
Total	498	4,282	77,512

ENERGY DELIVERY

System Consumption

System Reliability

Major Projects – Electric & Gas

ENERGY DELIVERY - UAB REPORT - APRIL 2019

Durations Reliability Report Between 4/01/2019 and 4/30/2019

Excludes TMED Days (Days in which the daily system SAIDI exceed a threshold value)

CUSTOMER DATA	RELIABILITY INDICIES		MONTHLY AVG GOAL
Monthly Average Customers Served(C)	98,419	Average Service Availability Index (ASAI)	99.9860%
Total Hours of Customer Demand	68,499,624	System Average Interruption Duration Index (SAIDI)	4.5 Mins
Total Number of Outages	129	Customer Average Interruption Duration Index (CAIDI)	55 Mins
Total Number of Customers Affected (CI)	11,729	System average Interruption Frequency Index (SAIFI)	0.08
Total Customer Minutes Interrupted (CMI)	573,459		
Total Customer "Out Minutes"	40,193	Average Length of a Service Interruption (L-Bar)	311.57 Mins

Outage Duration Times

Average Hours: 5
Maximum Hours: 29
Minimum Hours: 0

Cause of Outages

Cause	Overhead	Underground	Both	Total
0. Undetermined	69	15	1	85
1. Weather	6	1	0	7
2. Vegetation	25	4	0	29
3. Animals	7	0	0	7
4. Foreign Interference	0	0	1	1
5. Human Cause	4	4	1	9
6. Equipment Failure	6	9	2	17
7. All Remaining Outages	0	0	1	1
Total	117	33	6	156

* Durations Reliability Report Between 01/01/2019 and 4/30/2019

Excludes TMED Days (Days in which the daily system SAIDI exceed a threshold value)

CUSTOMER DATA	RELIABILITY INDICIES		FISCAL YTD GOALS
Monthly Average Customers Served(C)	98,419	Average Service Availability Index (ASAI)	99.9896%
Total Hours of Customer Demand	281,084,664	System Average Interruption Duration Index (SAIDI)	18
Total Number of Outages	252	Customer Average Interruption Duration Index (CAIDI)	55 Mins
Total Number of Customers Affected (CI)	30,101	System average Interruption Frequency Index (SAIFI)	0.32
Total Customer Minutes Interrupted (CMI)	1,745,724		
Total Customer "Out Minutes"	54,115	Average Length of a Service Interruption (L-Bar)	214.74 Mins

Outage Duration Times

Average Hours: 3
Maximum Hours: 29
Minimum Hours: 0

Cause of Outages

Cause	Overhead	Underground	Both	Total
0. Undetermined	85	19	2	106
1. Weather	9	2	0	11
2. Vegetation	51	7	1	59
3. Animals	25	2	0	27
4. Foreign Interference	0	1	1	2
5. Human Cause	12	8	5	25
6. Equipment Failure	14	27	6	47
7. All Remaining Outages	1	0	1	2
Total	197	66	16	279

ENERGY DELIVERY - UAB REPORT - APRIL 2019

Electric System Consumption

	2019		2018	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Feed-In-Tariff - Residential	53 KWH	101	65 KWH	102
Feed-In-Tariff - General Service	2282 KWH	156	2,461 KWH	156
Electric - GS - Demand - Regular	44027866 KWH	1,208	43,810,759 KWH	1,239
Electric - General Service Demand PV	734014 KWH	19	672,612 KWH	16
GREC Startup Supplemental and Standby				
Electric - GS - Kanapaha w Curtail Cr	1,090,800 KWH	1	1,066,800 KWH	1
Electric - GS - Demand - Large Power	7,231,200 KWH	7	7,489,840 KWH	9
Electric - GS - Murphree Curtail Credit	1,437,600 KWH	1	1,471,200 KWH	1
Electric - GS Large Demand PV	3,297,600 KWH	2	3,307,200 KWH	2
Electric - GS - Non Demand	12,739,493 KWH	9,794	12,612,150 KWH	9,685
Electric - General Service PV	65,564 KWH	64	67,342 KWH	58
Electric - Lighting - Rental	982,090 KWH	4,230 <i>n</i>	1,046,920 KWH	4,341 <i>n</i>
Electric - Lighting - Street - City	729,519 KWH	13 <i>n</i>	788,337 KWH	14 <i>n</i>
Electric - Lighting - Street - County	171,447 KWH	2 <i>n</i>	297,235 KWH	2 <i>n</i>
Electric - Lighting - Traffic	4,542 KWH	2 <i>n</i>	4,542 KWH	2 <i>n</i>
Electric - Residential - Non TOU	51,968,354 KWH	85,852	52,717,000 KWH	85,385
Electric - Residential PV	113,582 KWH	354	92,921 KWH	275
Total Retail Electric (<i>n</i> =not included in total)	124,596,006 KWH	97,559	125,447,384 KWH	96,929
City of Alachua	9,598,000 KWH	21,149 KW	9,220,000 KWH	19,056 KW
City of Winter Park	-	-	7,200,000 KWH	10,000 KW
Total (Native) Electric	134,194,006 KWH		141,867,384 KWH	

Gas System Consumption

	2019		2018	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Gas - GS - Regular Service (Firm)	678,549 THM	1,386	814,848 THM	1,425
Gas - GS - Regular Service (Small)	10,505 THM	290	12,794 THM	258
Gas - GS - Interruptible - Regular Serv	23,386 THM	1	43,776 THM	1
Gas - GS - Interruptible - Large Volume	5,766 THM	6	372,236 THM	7
Gas - Residential - Regular Service	600,531 THM	33,930	738,636 THM	33,677
Total Retail Gas	1,318,737THM	35,613	1,982,290 THM	35,368
Gas - GS - UF Cogeneration Plant	2,169,743 THM	1	1,832,079 THM	1
Gas - Residential - LP - Basic Rate	3,314 GAL	202	3,904 GAL	198
GREC Gas (PGA only)			-	0

*Obtained from Monthly Billing Summary prepared by Todd Kamhoot.

ENERGY DELIVERY - UAB REPORT - APRIL 2019

Energy Delivery - Major Projects

Major Electric Design Projects

West

- > SW 8th Ave / SW 20th Ave - OH to UG Conversion
- > Tower Rd Market West - Mixed-Use Development) / Grand Oaks Community
- > Celebration Pointe (New Development)

East

- > SE 4th St Roadway Project - OH to UG Conversion
- > CRA South Main Street - OH to UG Conversion
- > Murphree Water Plant - OH to UG Conversion and Rebuild

Major Gas Design Projects:

- > Main Installation – 13800 Block SW 8th Avenue - 2900'
- > Main Replacement – Duck Pond Mains and Services - 3100' Bare Steel
- > Main Installation – Oakmont Subdivision – ongoing – 10600'
- > Main Installation – Featherwood Unit 1 - 1000'

New Gas Services installed in April 2019: 26 New Customers

ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

April 2019

Source

Energy Supply - CAPACITY

Unit Capability output - MWn

DH-2	228
DH-1	67*
Kelly CC	108
CT's	106
Grid	2 X 224
DHR	102.5

Energy Supply - Performance Parameter

Month	YTD	Budget YTD	Delta Budget
65,761	313,186	320,122	(6,936)
13,966	76,942	26,761	50,181
30,544	269,357	417,737	(148,380)
169	4,890	219	4,671
46,011	81,741	95,537	(13,796)
28,929	333,893	139,237	194,656

*DH1 slight derate due to gas filter restriction in Dec

Fuels Consumed

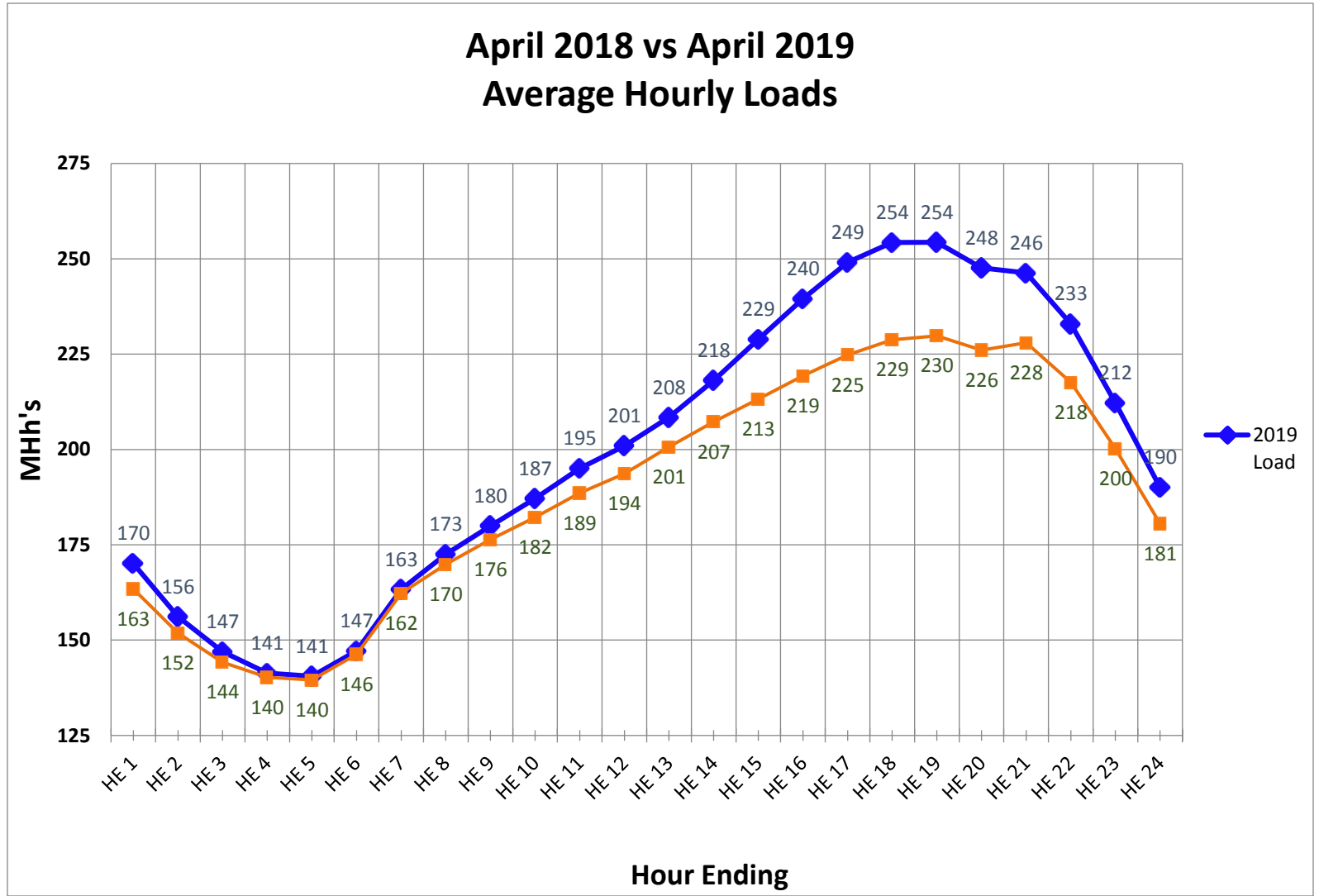
	Month	FYTD	Budget YTD	Delta Budget
Coal - Tons	24,989	123,348	172,232	(48,884)
Gas - MCF	495,047	4,300,811	4,168,085	132,726
Fuel oil - Gals	-	9,531	-	9,531
Biomass - Tons	36,458	430,686	176,356	254,330

Availability/Capacity

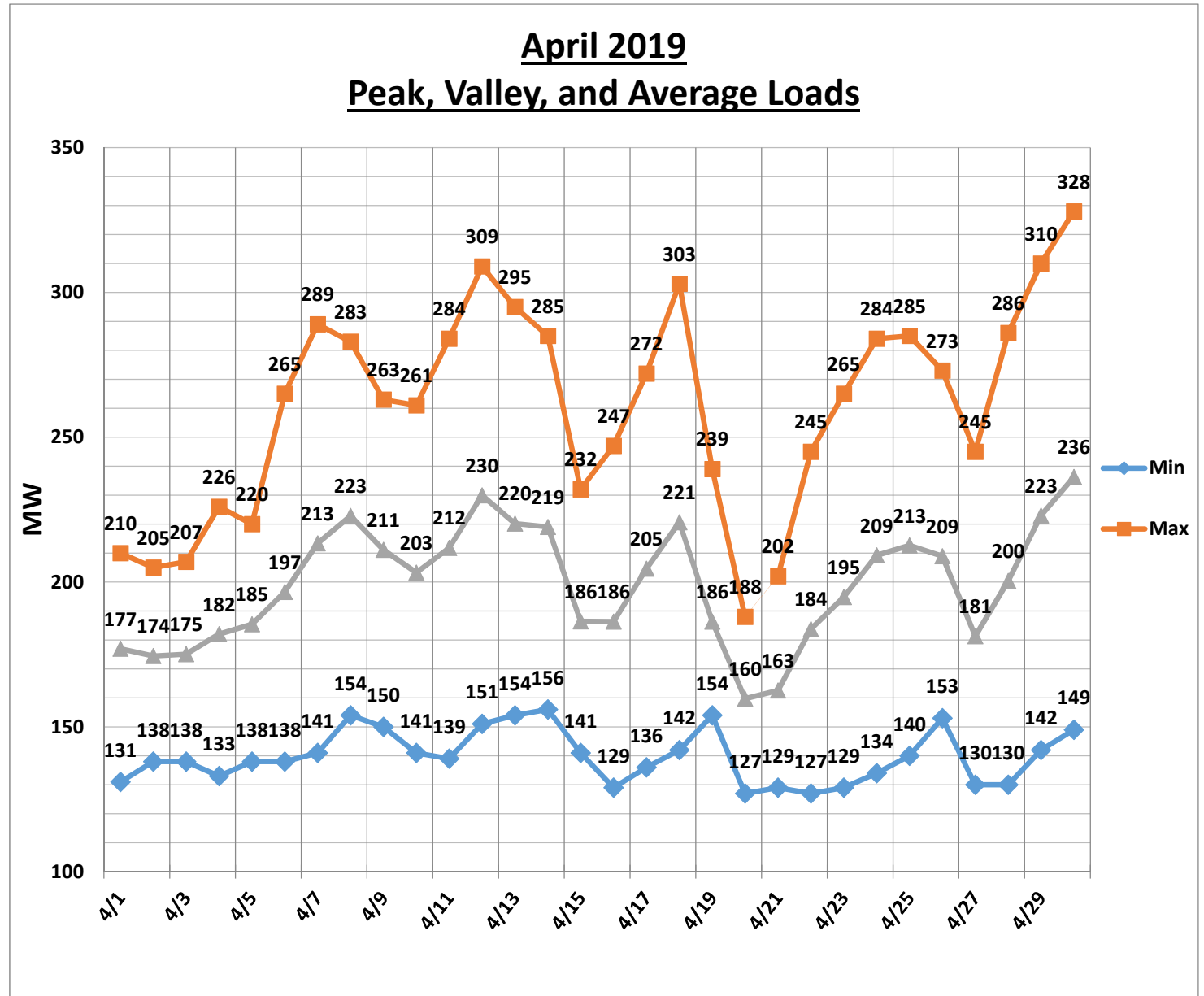
	Availability			Capacity		
	Month	FY 2019 YTD	FY 2018 YTD	Month	FY 2019 YTD	FY 2018 YTD
DH-2	100.00%	74.18%	96.26%	41.32%	29.00%	30.89%
DH-1	100.00%	99.23%	90.09%	26.55%	21.11%	27.88%
Kelly CC	50.64%	77.60%	75.30%	31.22%	44.08%	47.93%
DH CT-1	100.00%	99.32%	98.89%	0.35%	1.35%	0.41%
DH CT-2	100.00%	93.52%	96.00%	0.09%	0.18%	0.71%
DH CT-3	93.19%	96.14%	50.63%	0.13%	1.24%	4.93%
DHR*	48.57%	83.63%	80.41%	43.77%	73.52%	23.69%

DHR tracking is from Nov. 7th, 2017 forward

April Average Hourly Loads		
Hour Ending	2018 Load	2019 Load
HE 1	163	170
HE 2	152	156
HE 3	144	147
HE 4	140	141
HE 5	140	141
HE 6	146	147
HE 7	162	163
HE 8	170	173
HE 9	176	180
HE 10	182	187
HE 11	189	195
HE 12	194	201
HE 13	201	208
HE 14	207	218
HE 15	213	229
HE 16	219	240
HE 17	225	249
HE 18	229	254
HE 19	230	254
HE 20	226	248
HE 21	228	246
HE 22	218	233
HE 23	200	212
HE 24	181	190



Date	Valley	Peak	Ave
4/1/2019	131	210	177
4/2/2019	138	205	174
4/3/2019	138	207	175
4/4/2019	133	226	182
4/5/2019	138	220	185
4/6/2019	138	265	197
4/7/2019	141	289	213
4/8/2019	154	283	223
4/9/2019	150	263	211
4/10/2019	141	261	203
4/11/2019	139	284	212
4/12/2019	151	309	230
4/13/2019	154	295	220
4/14/2019	156	285	219
4/15/2019	141	232	186
4/16/2019	129	247	186
4/17/2019	136	272	205
4/18/2019	142	303	221
4/19/2019	154	239	186
4/20/2019	127	188	163
4/21/2019	129	202	163
4/22/2019	127	245	184
4/23/2019	129	265	195
4/24/2019	134	284	209
4/25/2019	140	285	213
4/26/2019	153	273	209
4/27/2019	130	245	181
4/28/2019	130	286	200
4/29/2019	142	310	223
4/30/2019	149	328	236



Date: As of May 6th, 2019: Major Energy Supply Projects/Milestones Updates:

1. Deerhaven (DH)
 - a. Deerhaven CT3 experienced a fail to start event on 4/18/2019, and we identified the cause was a failed contactor in the starting motor circuit. The original contactor could not be repaired, so we needed to install a spare. The spare contactor was installed 4/21/2019, and then CT3 was retested and restored to full service. In parallel the original defective contactor has been sent off for repairs so we can restore our spare.
2. Deerhaven Renewable(DHR):
 - a. Completed the unit planned outage on 4/17/2019 and unit was restored to full service.
3. Kelly (JRK):
 - a. CT4 had to be removed from service 4/10/2019 for an oil leak in the combustion turbine load compartment. Spill was less than 10 gallons and all contained within the turbine load compartment. Cause of spill was identified as a cracked bearing oil feed line. Weld repairs made to feed line and full oil cleanup completed on 4/14/2019.
 - b. From incident above once unit was restored to service on 4/17/2019 we experienced several runback (rapid reduction in load while on line) that was a result of excessive indications of exhaust temperature spreads. Machine is designed to runback when there is indication of abnormal combustion issues, and this is what the exhaust temperature spread would indicate. We submitted a formal request for assistance to the OEM (General Electric) for both troubleshooting and on site tuning Engineer. Tuning was not able to resolve this spread issue so we requested a Turbine Engineer to assist with more advanced troubleshooting efforts. As part of the troubleshooting we sent 3 of the secondary fuel nozzles off for flow testing by 3rd part independent vendor. This testing did not identify any issues with the fuel nozzles, and they have been subsequently reinstalled. In parallel we discovered deterioration in the thermocouple wiring that resulted in replacement of all 18 of the exhaust plenum thermocouples. GE requested subsequent testing of unit that still resulted in 2 runbacks. Further troubleshooting identified issues with the operation of the secondary nozzle (Transfer) air purge valve. We had the valve rebuilt and tested in shop. GE believed this could have contributed to the loss of flame that is resulting in runbacks. On 5/2/2019 we retested unit and were able to get past unit transfer load of 54 MW without a runback, this validates the purge valve was contributing to runback issues. Unfortunately when we got up to 74 MW we experienced another sequence of runbacks. All the updated run data was collected and sent back to GE for further direction. On 5/3/2019 we inspected the natural gas fuel strainer, and found damage to strainer and sticky residue in strainer. Subsequent borescope of fuel lines found similar residue in fuel lines. GE is recommending and full inspection, cleaning, and replacement of the primary and secondary fuel nozzles, as well as steam cleaning of the fuel lines. The Major Maintenance Group (MMG) has now shifted their work to support disassembly of the machine to support this scope of work. Initial time estimate for repairs is 3 weeks, and we are working this forced outage 6 days a week on 10 hour shifts. This is a top priority for Energy Supply so we can restore Kelly Combined Cycle Unit #1 (JCC1).
4. South Energy Center (SEC):
 - a. Successfully completed the Wartsila (RICE Engine OEM) 12,000 hour inspection 4/16 through 4/24/2019.
 - b. Steam Chiller is down and waiting for parts to restore to service, and parts are expected week of 5/13/2019. This had no impact to hospital service.

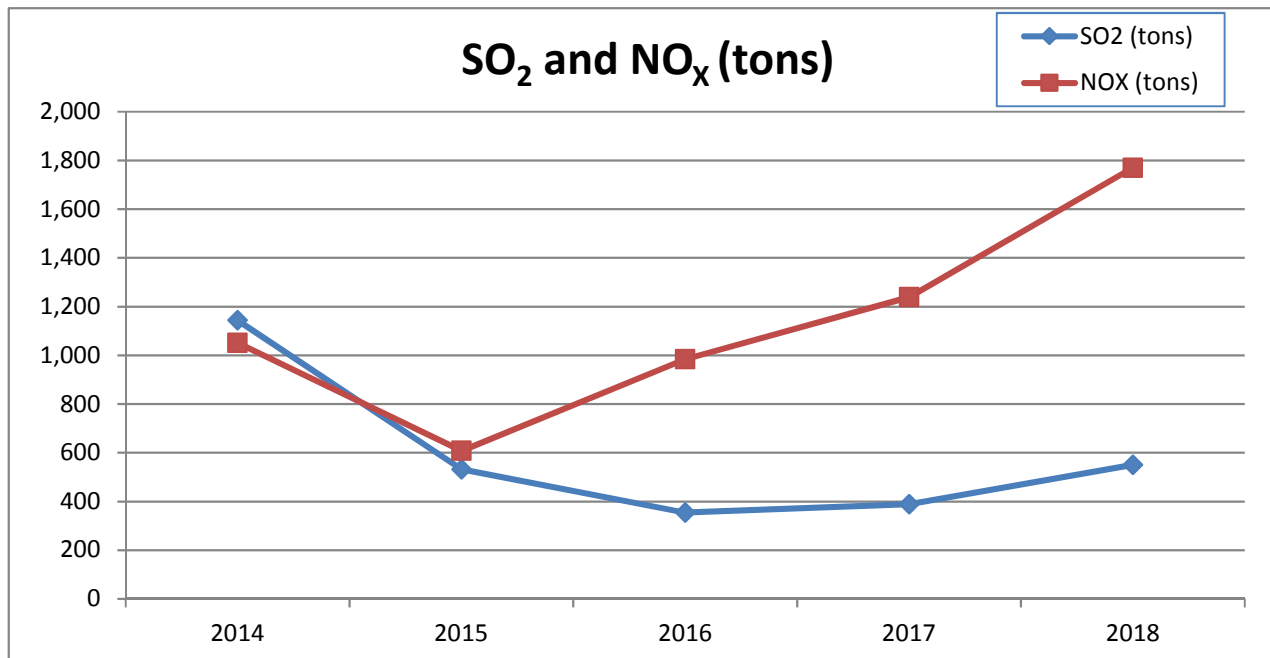
ENVIRONMENTAL PERMITTING

EMISSIONS DATA

Yearly Emissions

	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)
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
2017	389	1,239	2.40	52	1,037,711
2018	551	1,770	3.80	55	2,096,289
2019 (Jan.-Apr.)	218	593	1.77	17.78	613,886

Starting in 2018, data includes DHR. The previous years did not include DHR.
DH2 only for PM and Hg.

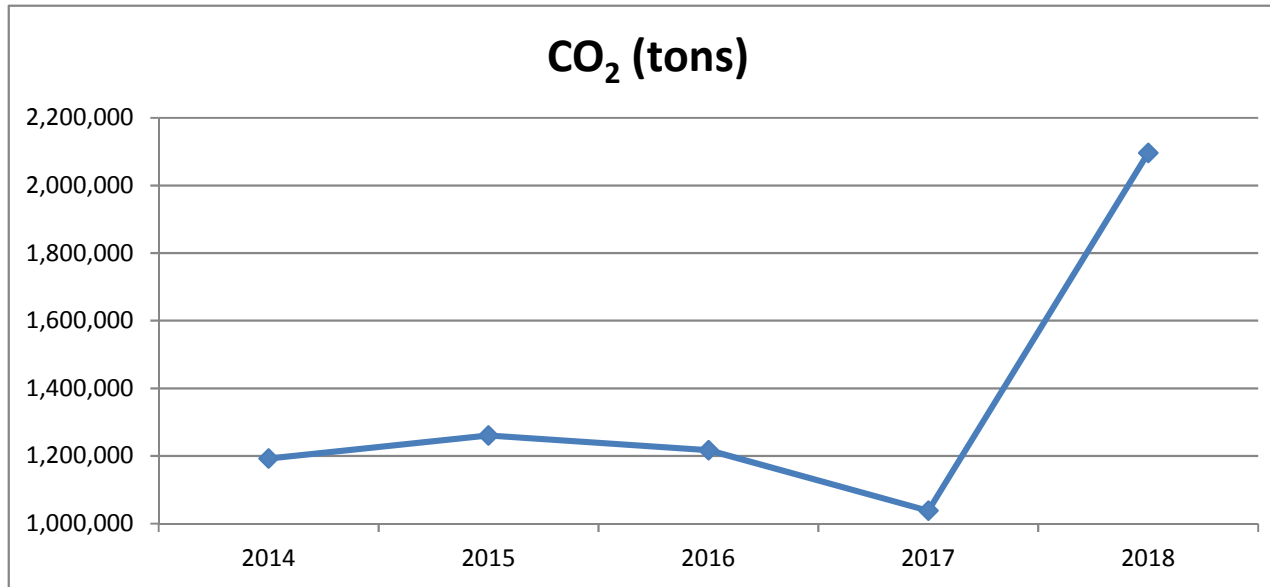


SO₂ was lower in 2015, 2016, and 2017 due to higher removal rate settings to assure compliance with the MATS Rule.

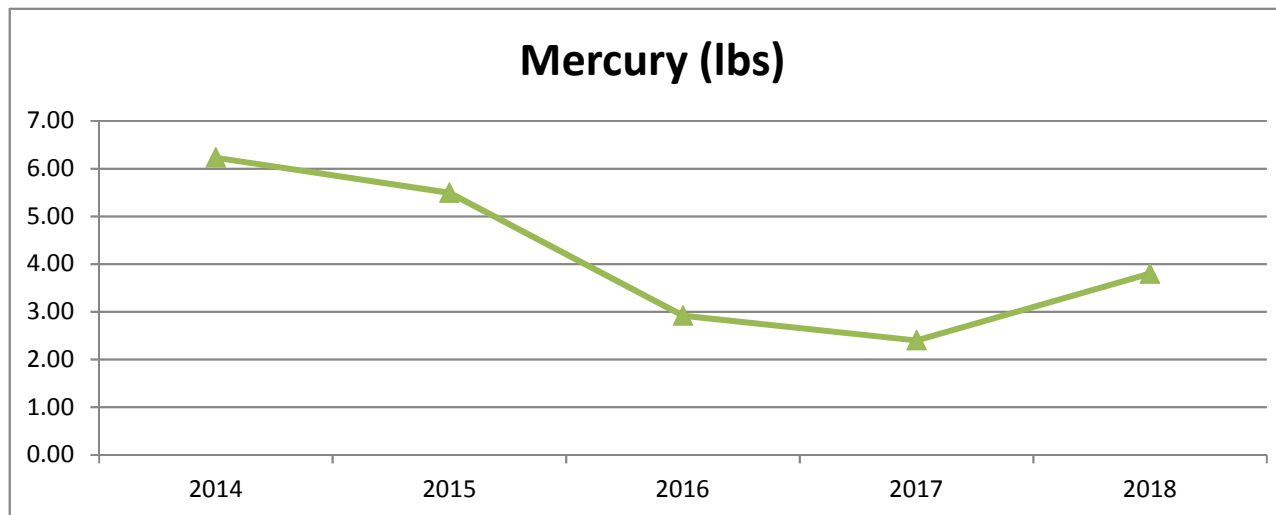
NO_x was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate. NO_x was higher in 2017 and 2018 since the Cross State Rule was no longer in effect for Florida.

Starting in 2018, data includes DHR. The previous years did not include DHR.

Yearly Emissions

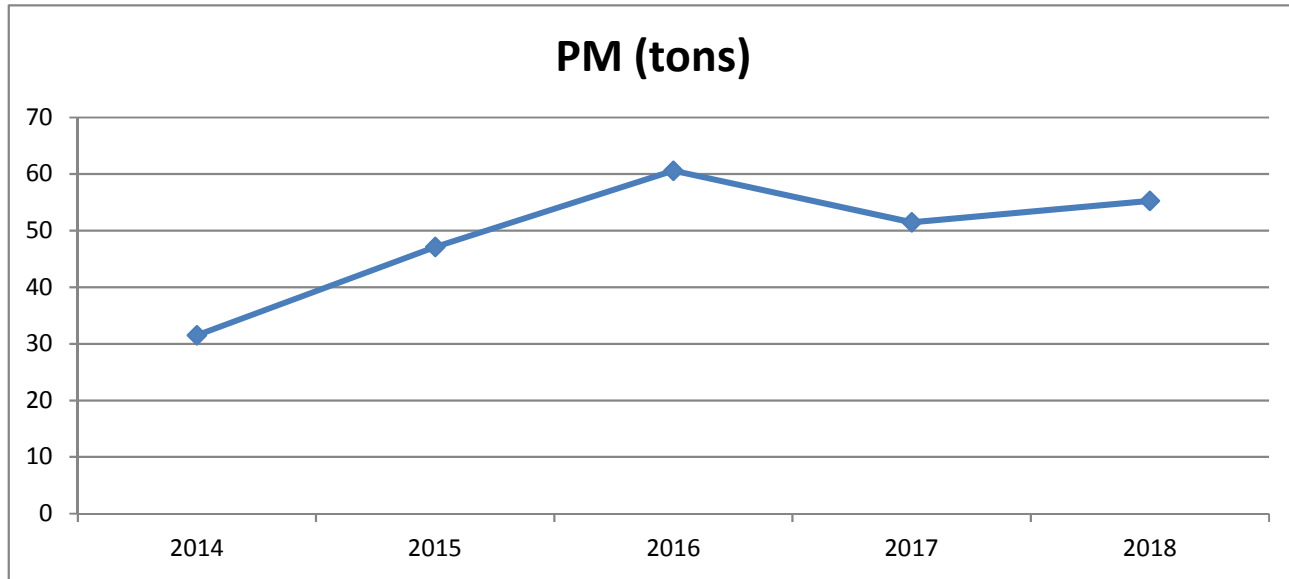


Starting in 2018, data includes DHR. The previous years did not include DHR.



Mercury was lower in 2016 and 2017 due to higher removal rate settings to assure compliance with the MATS Rule. DH2 is only unit with a Hg CEMS.

Yearly Emissions



DH2 is only unit with a PM CEMS

2019 YTD (January-April)

	SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)			HTIP (MMBtu)	GEN (MW-hours)
DH1	0.1	34.8			25,225.4			424,490.0	34,532.0
DH2	212.5	462.3	1.77	17.8	262,425.5			2,558,148.0	284,047.0
DHCT3	0.0	0.3			821.5			13,815.0	956.0
JRKCC1	0.2	8.6			32,438.7			545,835.0	61,044.0
DHR	5.3	87.1			292,974.7			2,808,498.0	214,413.9
TOTAL	218.1	593.1	1.774	17.8	613,885.8			6,350,786.0	594,992.9

2019 - April

	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	0.1	14.9			11,901.1			200,284.0	15,697.0
DH2	60.3	127.9	0.3	4.8	71,644.3			698,282.0	76,528.0
DHCT3	0.0	0.0			102.6			1,726.0	114.0
JRKCC1	0.1	4.5			17,104.8			287,820.0	30,719.0
DHR	0.8	13.4			44,881.3			430,712.1	33,278.8
TOTAL	61.3	160.7	0.349	4.8	145,634.1			1,618,824.1	156,336.8

NERC COMPLIANCE

PENALTY VIOLATIONS

NON-PENALTY VIOLATIONS

POTENTIAL VIOLATIONS

Utility Advisory Board Monthly Report – FY 2019 NERC compliance

Penalty violations

<u>Determination date</u>	<u>Description</u>
N/A	No penalties to-date for FY 2019

Non-Penalty violations (Compliance Exceptions or Find-Fix-Track)

<u>Determination date</u>	<u>Description</u>
12/4/2018	GRU's Area Control Error (ACE), which is a calculation of electrical interchange on the system exceeded the Balancing Authority ACE Limit (BAAL) on three occasions
12/10/2018	Electronic authentication attempts were not limited for a portion of GRU's cyber assets that were part of a Critical Infrastructure Protection (CIP) network.
2/19/2019	A portion of the scheduled maintenance was not performed for generation station batteries that supply power to protection systems.
2/19/2019	Notification of a generator Automatic Voltage Regulator (AVR) status change was not made within the required time frame
3/27/2019	An alarm or alert was not issued in response to detected unauthorized access through a physical access point into a Physical Security Perimeter within the required time frame. Note: detected unauthorized access was a false alarm.
4/23/2019	GRU did not provide notification within the required time frame for a list of BES Elements that result in relay tripping during simulated extreme events

Potential violations (Pending regulatory agency determination)

<u>Report date</u>	<u>Description</u>
N/A	none pending at time of report

WATER/WASTEWATER

PRODUCTION

MAINTENANCE

Water/Wastewater April Dashboard

Production						
Murphree Water Treatment Plant						
		Apr 2019	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.9	22.2	30	74%	
	Peak Daily Flow	27.0	25.2	54	-	
Main Street Water Reclamation Facility						
		Apr 2019	FY to Date (mgd)	Permitted Capacity (mgd)		Status
	Average Daily Flow	5.3	6.4	7.5		
Kanapaha Water Reclamation Facility						
		Apr 2019	FY to Date (mgd)	Permitted Capacity (mgd)		Status
	Average Daily Flow	11.2	12.0	14.9		
Water Reclamation Facilities (Combined)						
		Apr 2019	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	16.5	18.4	22.4	82%	
Maintenance						
Wastewater Collections						
		April 2019 (Miles)	FYTD	Monthly Goal (miles)		
	Miles of gravity mains cleaned	6.6	45	5.0		
	Miles of gravity mains TV inspected	5.4	37	5.0		
Water Distribution						
		April 2019	FYTD	Monthly Goal		
	Number of Water Services Replaced	90	552	75		
SSO Monthly Summary						
		April	YTD	GOAL		
	Sanitary Sewer Overflows	2	15	<16		

Major Projects and Other Updates

- MWTP Electric System Upgrade** - Structure nearly complete for the new electrical building, Guard Shack complete
- MSWRF - Aeration Basin and Headworks** project planning and design are underway. East Clarifier demolition & rehab continues
- Gravity Sewer Lining** - Priorities being established through I/I Assessment with a goal to line at least 10 miles of gravity sewer in FY19
- KWRF** - all carousels are back online