

STATE OF THE UTILITY

August 2019

Item #190380

OPERATIONS SUMMARY

COMPLIANCE

CORPORATE SAFETY

ENVIRONMENTAL

REGULATORY

PERSONNEL

August 2019

Safety

Employees

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

	First Aid	Year to Date Recordable	DART
	1	4	3
	6	9	3
	1	2	1
	5	11	6
	0	0	0
		26	

Vehicles

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

	Miles Driven	Year to Date Recordable	Preventable
	158,412	0	0
	804,124	10	6
	40,113	0	0
	1,070,557	9	7
	90,886	0	0
	2,164,092	19	

August mileage not yet reported

Through July

Environmental

	Current Month
Notices of Violation	1

Calendar Year to Date
1

Emissions

DH1, DH2, DHCT3, JRKCC1

CO ₂ (tons)	111,617
NO _x (tons)	123
SO ₂ (tons)	51

724,446
1047
431

DH Unit 2 (only)

PM _{FILT} (tons)	4
Hg (lbs)	0.30

33
3.52

DHR

CO ₂ (tons)	96,853
NO _x (tons)	28
SO ₂ (tons)	2

680,474
201
12

Regulatory

NERC

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

FY to Date
7
9

Personnel

Row Labels	AUTHORIZED_FTE	FILLED_FTE	VACANCY	Last Month (July)
Administration	15.00	14.00	1.00	2.00
Chief Operating Officer	20.00	18.00	2.00	1.00
Customer Support Services	118.25	107.00	11.25	10.25
Energy Delivery	264.00	258.00	6.00	14.00
Energy Supply	145.00	148.00	-3.00	-1.00
Energy Supply - District Energy	10.00	10.00	0.00	0.00
Finance	43.00	32.00	11.00	12.00
GRUCom	38.00	31.00	7.00	8.00
Information Technology	66.00	53.00	13.00	12.00
IT Governance & Compliance	5.00	5.00	0.00	0.00
Water Wastewater	168.00	158.00	10.00	8.00
Grand Total	892.25	834.00	58.25	66.25

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 11/2/2018.

NOVEMBER

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

DECEMBER

- 12/06/2018 Employee slipped on some oil on the concrete floor and injured his right knee.
- 12/19/2018 While prying open a valve box, debris was thrown around his safety glasses and into his eyes causing irritation

JANUARY

- 1/7/2019 While carrying materials to another department, employee struck her left hand, fracturing the hand. (late report) (DART – Lost time)
- 1/11/2019 Unknown debris blew into a meter reader's right eye, causing irritation.
- 1/27/2019 Working at the headworks to remove a stoppage exposed employee's eyes to aerosols causing eye irritation.

FEBRUARY

- 2/25/2019 Employee was bitten by a dog on left leg while in yard reading meters.

MARCH

- 3/1/2019 Employee chipped tooth when wrench slipped while loosening bolt.
- 3/10/2019 Employee sprained ankle stepping down from derrick control station into truck bed
- 3/18/2019 Debris was blown into employee's right eye, causing abrasion of the cornea.

3/28/2019 While working on the belt thickener, wind-blown dust/debris got into employee's eyes causing irritation.

APRIL

4/9/2019 Employee fell off a pipe trailer and fractured his left wrist when he tried to catch his fall with his hand. (DART – Lost time)

MAY

5/1/2019 While reorganizing material, employee dropped a heavy box on her L middle finger, splitting the nail

5/7/2019 Employee was struck in the nose by metal splinter during alignment of hydraulic press

5/23/2019 While returning from an overnight call-out, employee was stung in the hand by an unknown insect

5/23/2019 Employee was lifting a press die and strained his lower back. (DART – restricted duty)

5/30/2019 Employee was pulling lid from underground junction box with blue manhole hook. Lid was stuck. Felt burning in lower abdomen (DART – restricted duty)

JUNE

6/10/2019 Employee's hand was struck/injured with drill bit as it came through pole.

JULY

7/2/2019 Employee was pulling on a water jet hose and strained his lower back.

7/3/2019 Employee was walking on a trailer deck when a board broke and he sprained his left knee as he fell through.

7/22/2019 Employee fractured her left middle finger when she slipped on an incline and caught her finger in between bench and legs.

AUGUST

8/29/2019 While loading equipment after completing an outage employee strained back. (DART – restricted duty)

SEPTEMBER

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

11/2019/2018 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)

MAY

5/18/2019 While stopped at the red light at the I-75 NB exit at the NW 39th Ave exit, a GRU service truck was rear-ended.

5/20/2019 Person came out of a porta-potti quickly, colliding with the side of truck.

5/21/2019 Employee back into a parked car while parking to repair a streetlight. (P)

JUNE

No collisions reported

JULY

7/1/2019 Employee was traveling through the intersection and was struck by a car that ran the red light.

7/23/2019 Employees vehicle U-1895 struck another GRU vehicle (U-1916) that pulled behind him while backing into a parking space at the EOC. (P)

AUGUST

No collisions reported

SEPTEMBER

End of FY 2019

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
6/6/2019	Underfrequency Load Shedding (UFLS) relay setting was incorrect for approximately one year

Potential violations (Pending regulatory agency determination)

<u>Report date</u>	<u>Description</u>
6/6/2019	35 Cyber Assets were delayed in being included under GRU's Critical Infrastructure Protection (CIP) program
7/22/2019	Review and re-approval of CIP Cyber Security policy document exceeded the 15 month cycle period by 81 days

CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

Customer Operations Metrics Summary August 2019

Active Accounts	Aug-19	YTD Gain/Loss	FY18
<i>Residential Contract Accounts</i>			
Total	91,716	736	90,980
Electric	84,960	557	84,403
Gas	33,738	298	33,440
Water	63,495	390	63,105
Wastewater	59,398	386	59,012
Telecomm	121	(8)	129

Active Accounts	Aug-19	YTD Gain/Loss	FY18
<i>Nonresidential Contract Accounts</i>			
Total	13,595	113	13,482
Electric	11,027	92	10,935
Gas	1,656	13	1,643
Water	5,896	49	5,847
Wastewater	4,689	55	4,634
Telecomm	389	23	366

New Installations	Aug-19	FY19 To Date	FY18
Electric	123	1262	1512
Gas	41	487	463
Water	54	621	558
Wastewater	54	571	566
Telecomm	28	131	120

Residential Disconnects	Aug-19	FY19 To Date	FY18
Volume	968	12,928	15,305
Average Balance	\$262.15	\$246.14	\$250.07

Call Center Volume	Aug-19	FY19 To Date	FY18
Residential ASA	0:11:30	0:07:05	0:10:59
Business ASA	0:04:35	0:02:55	0:04:19
CSR Calls	13,420	136,336	142,989
CSR Callbacks	3,839	18,922	25,780
IVR Self Service	21,326	207,740	266,463
Total	34,746	344,076	409,452
IVR/Total	61%	60%	65%

Revenue Assurance	Aug-19	FY19 To Date	FY18
Referred to Collections	\$111,622.86	\$1,771,665.26	\$1,783,116.51
Recovered	\$60,202.25	\$745,299.18	\$786,025.11

Service Orders	Aug-19	FY19 To Date	FY18
Move Ins	22,307	103,061	116,784
Move Outs	19,144	102,880	116,307

Bills Generated	Aug-19	FY19 To Date	FY18
Paper Bills	103,610	1,177,996	1,276,432
eBills	17,855	196,136	200,984
Total	121,465	1,374,132	1,477,416
eBill/Total	15%	14%	14%

Average Res Bill Amounts	Aug-19	FY19 To Date	FY18
Electric (kWh)	989	809	812
Electric (\$)	\$145.32	\$118.43	\$118.11
Gas (Therms)	5	20	21
Gas (\$)	\$9.22	\$33.58	\$34.13
Water (kGals)	23	6	5
Water (\$)	\$4.76	\$28.30	\$30.34
Wastewater (kGals)	30	7	5
Wastewater(\$)	\$4.69	\$34.01	\$36.86

Payment Arrangements	Aug-19	FY19 To Date	FY18
Total	3,140	9,043	77,512

9/10/2019

ENERGY DELIVERY

System Consumption

System Reliability

Major Projects – Electric & Gas

ENERGY DELIVERY - UAB REPORT - AUGUST 2019

Durations Reliability Report Between 8/01/2019 and 8/31/2019

Excludes Extreme Weather and Generation/Transmission Disturbances

CUSTOMER DATA	RELIABILITY INDICIES	MONTHLY AVG GOAL
Monthly Average Customers Served(C)	98,023 Average Service Availability Index (ASAI)	99.9831%
Total Hours of Customer Demand	70,576,560 System Average Interruption Duration Index (SAIDI)	7.28 4.5 Mins
Total Number of Outages	98 Customer Average Interruption Duration Index (CAIDI)	67.95 55 Mins
Total Number of Customers Affected (CI)	10,509 System average Interruption Frequency Index (SAIFI)	0.11 0.08
Total Customer Minutes Interrupted (CMI)	714,036	
Total Customer "Out Minutes"	14,915 Average Length of a Service Interruption (L-Bar)	152.19 Mins

Outage Duration Times

Average Hours: 2
Maximum Hours: 10
Minimum Hours: 0

ENERGY DELIVERY - UAB REPORT - AUGUST 2019

Durations Reliability Report Between 01/01/2019 and 8/31/2019 *

Excludes Extreme Weather and Generation/Transmission Disturbances, Excludes TMED Days

CUSTOMER DATA	RELIABILITY INDICIES	YTD AVG GOALS
Monthly Average Customers Served(C)	98,023 Average Service Availability Index (ASAI)	99.9590%
Total Hours of Customer Demand	569,317,584 System Average Interruption Duration Index (SAIDI)	142.8 36
Total Number of Outages	607 Customer Average Interruption Duration Index (CAIDI)	208.36 55 Mins
Total Number of Customers Affected (CI)	67,178 System average Interruption Frequency Index (SAIFI)	0.69 0.64
Total Customer Minutes Interrupted (CMI)	13,997,348	
Total Customer "Out Minutes"	133,020 Average Length of a Service Interruption (L-Bar)	236.27 Mins

Outage Duration Times

Average Hours: 2
Maximum Hours: 29
Minimum Hours: 0

* REPORTED AS CALENDAR YEAR

ENERGY DELIVERY - UAB REPORT - AUGUST 2019

Electric System Consumption

	2019		2018	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Feed-In-Tariff - Residential	68 KWH	100	44 KWH	99
Feed-In-Tariff - General Service	2,346 KWH	156	2,296 KWH	155
Electric - GS - Demand - Regular	58,475,215 KWH	1,202	54,774,064 KWH	1,200
Electric - General Service Demand PV	940,988 KWH	19	840,829 KWH	17
Electric - GS - Kanapaha w Curtail Cr	1,098,000 KWH	1	1,032,000 KWH	1
Electric - GS - Demand - Large Power	8,701,800 KWH	6	9,124,840 KWH	8
Electric - GS - Murphree Curtail Credit	1,468,800 KWH	1	1,416,000 KWH	1
Electric - GS Large Demand PV	4,843,200 KWH	2	4,718,400 KWH	2
Electric - GS - Non Demand	18,544,303 KWH	9,843	15,801,351 KWH	9,250
Electric - General Service PV	188,240 KWH	64	131,127 KWH	51
Electric - Lighting - Rental	977,364 KWH	4,535 <i>n</i>	997,136 KWH	4,170 <i>n</i>
Electric - Lighting - Street - City	711,547 KWH	12 <i>n</i>	772,952 KWH	14 <i>n</i>
Electric - Lighting - Street - County	136,537 KWH	2 <i>n</i>	289,267 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	86,403,198 KWH	90,197	78,891,684 KWH	86,519
Electric - Residential PV	346,704 KWH	379	275,536 KWH	304
Total Retail Electric	182,842,852 KWH	101,970	169,072,068 KWH	97,607
<small>(n =not included in total customer count)</small>				
City of Alachua	13,885,000 KWH	27,464 KW	13,455,000 KWH	26,354 KW
City of Winter Park	-	-	7,440,000 KWH	10,000 KW
Total (Native) Electric	196,727,852 KWH		189,967,068 KWH	

Gas System Consumption

	2019		2018	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Gas - GS - Regular Service (Firm)	644,205 THM	1,365	524,968 THM	1,217
Gas - GS - Regular Service (Small)	5,218 THM	306	7,121 THM	270
Gas - GS - Interruptible - Regular Serv	32,000 THM	2	31,201 THM	1
Gas - GS - Interruptible - Large Volume	351,559 THM	7	391,333 THM	7
Gas - Residential - Regular Service	302,799 THM	34,347	280,977 THM	33,648
Total Retail Gas	1,335,781 THM	36,027	1,235,600 THM	35,143
Gas - GS - UF Cogeneration Plant	3,003,027 THM	1	2,857,165 THM	1
Gas - Residential - LP - Basic Rate	2,076 GAL	200	1,949 GAL	200

*Obtained from Monthly Billing Summary prepared by Todd Kamhoot.

ENERGY DELIVERY - UAB REPORT - AUGUST 2019

Energy Delivery - Major Projects

Major Electric Design Projects

West

- > Tower Rd Market West - Mixed-Use Development) / Grand Oaks Community
- > Butler Plaza - Multiple Commercial Projects
- > Celebration Pointe - New Development
- > Integra 24 - 232 unit apartment complex
- > Campus Circle - Residential Development

East

- > Harpers' Pointe - 69 Assisted Living Apartments (single story)
- > Hub on Campus I - 8 story mixed-use development
- > Hub on Campus II - 7 story mixed-use development
- > Campus Advantage Apartments - 5 story student apartments
- > Hyatt Place - Hotel City Center - Downtown mixed-use redevelopment

Major Gas Design Projects:

- > Main Installation – Oakmont Subdivision – ongoing – 10600'
- > Main Installation – Finley Woods Subdivision – 1460'
- > Main Installation – Grand Oaks Phase 1 - 5150'
- > Main Installation – South Point Phase 2
- > Main Installation – Hub 2 300 Block NW 13th St - 900'

New Gas Services installed in August 2019: 37 New Customers

ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

August 2019

Energy Supply - CAPACITY

Energy Supply - Performance Parameter

Source

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

	Month	YTD	Budget YTD	Delta Budget
	48,272	531,501	563,178	(31,677)
	17,237	145,970	30,472	115,498
	75,689	443,138	721,919	(278,781)
	294	9,123	243	8,880
	3,601	114,705	136,491	(21,786)
	58,719	577,707	304,156	273,551

*DH1 slight derate due to gas filter restriction in Dec

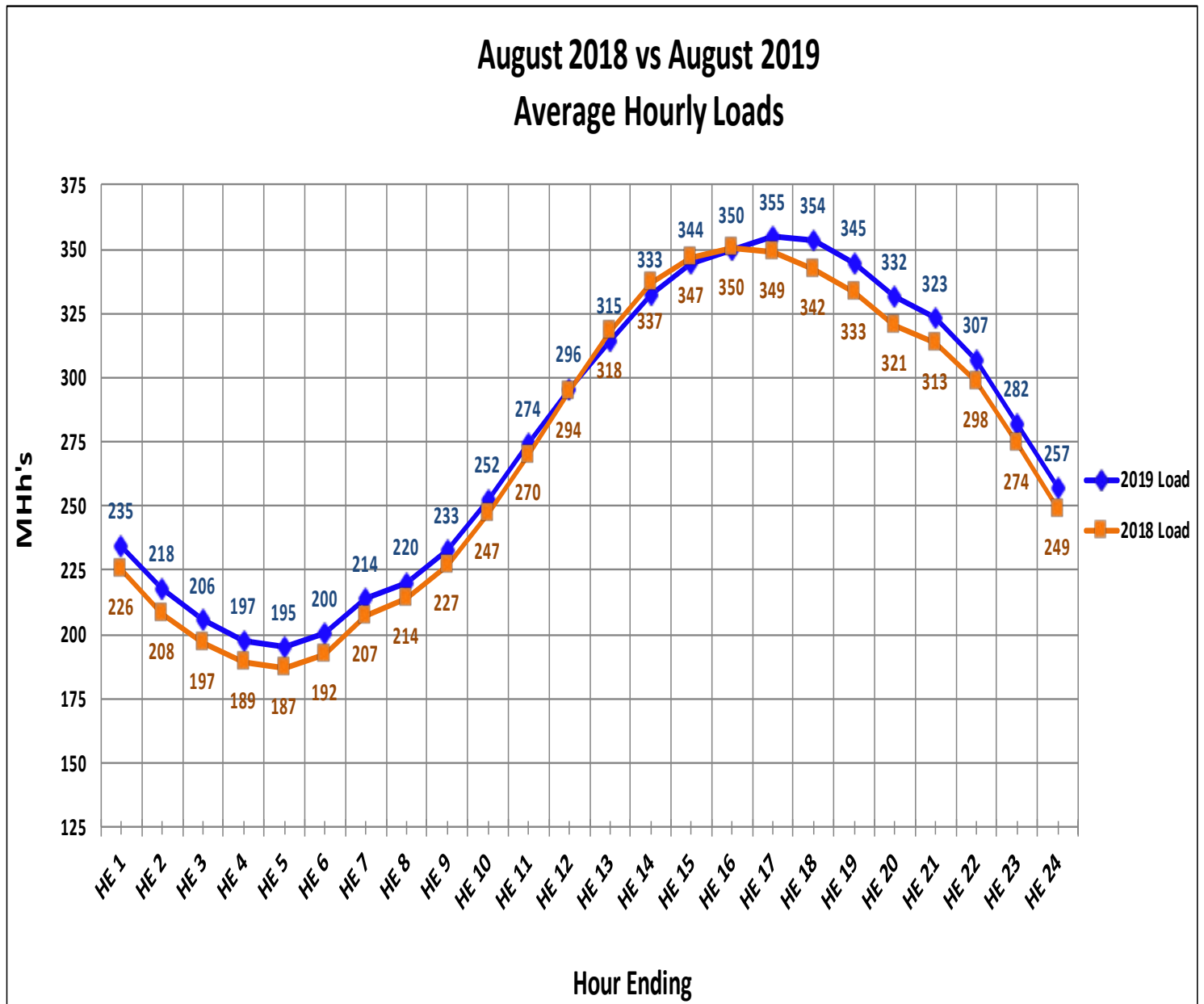
Fuels Consumed

	Month	FYTD	Budget YTD	Delta Budget
Coal - Tons	18,379	204,599	310,270	(105,672)
Gas - MCF	1,059,220	7,660,329	6,918,352	741,977
Fuel oil - Gals	85	52,920	-	52,920
Biomass - Tons	81,180	754,193	378,790	375,403

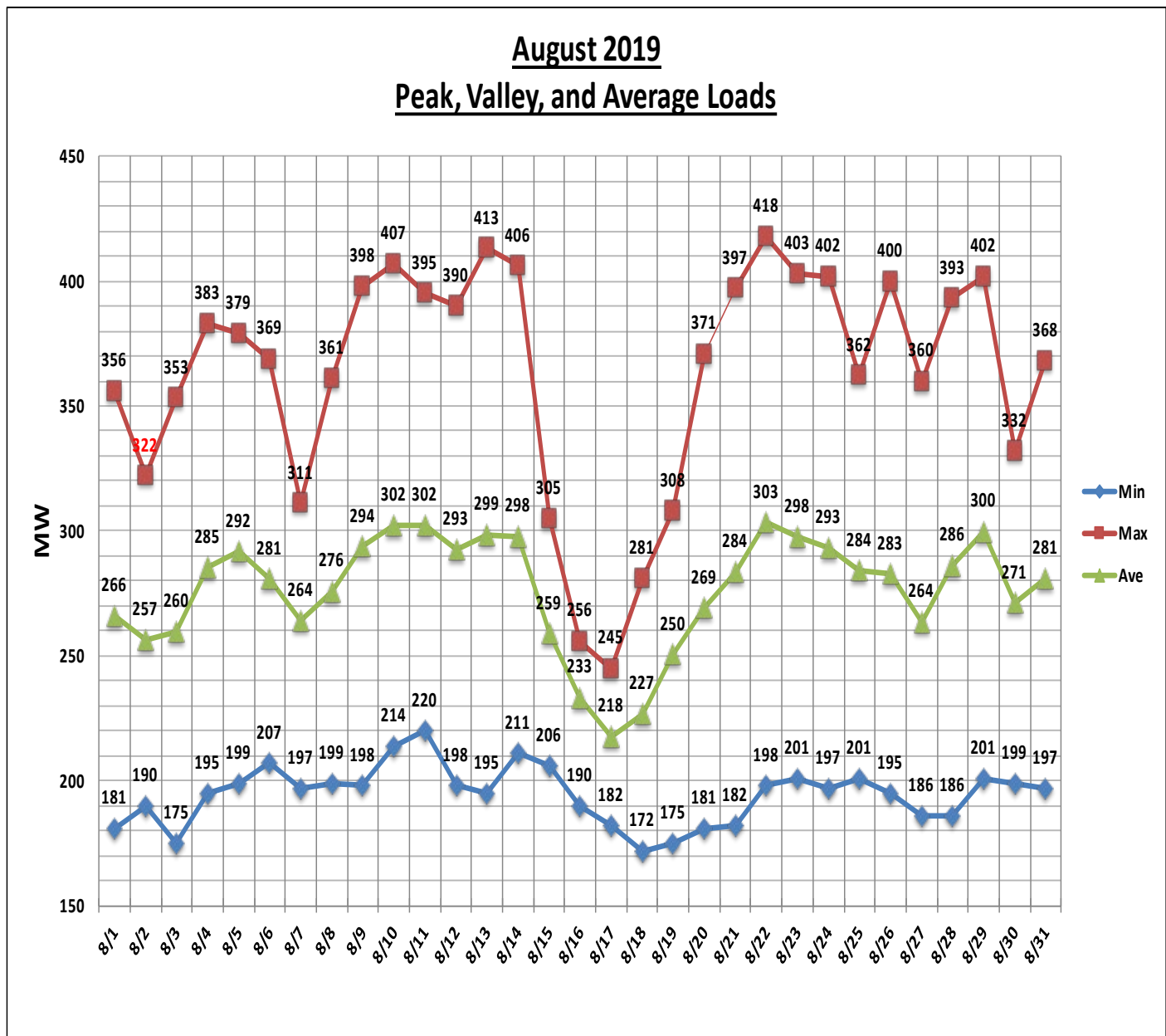
Availability/Capacity

	Availability			Capacity		
	Month	FY 2019 YTD	FY 2018 YTD	Month	FY 2019 YTD	FY 2018 YTD
DH-2	90.98%	82.73%	96.26%	31.27%	31.40%	38.79%
DH-1	100.00%	99.51%	90.09%	32.79%	25.55%	25.59%
Kelly CC	100.00%	77.44%	75.30%	93.38%	51.87%	45.77%
DH CT-1	100.00%	99.50%	98.89%	0.00%	0.18%	0.31%
DH CT-2	100.00%	95.50%	96.00%	0.01%	0.12%	0.51%
DH CT-3	100.00%	84.50%	50.63%	0.44%	1.44%	0.89%
DHR*	100.00%	89.34%	80.41%	79.15%	71.92%	79.93%

August Average Hourly Loads		
Hour Ending	2018 Load	2019 Load
HE 1	226	235
HE 2	208	218
HE 3	197	206
HE 4	189	197
HE 5	187	195
HE 6	192	200
HE 7	207	214
HE 8	214	220
HE 9	227	233
HE 10	247	252
HE 11	270	274
HE 12	294	296
HE 13	318	315
HE 14	337	333
HE 15	347	344
HE 16	350	350
HE 17	349	355
HE 18	342	354
HE 19	333	345
HE 20	321	332
HE 21	313	323
HE 22	298	307
HE 23	274	282
HE 24	249	257

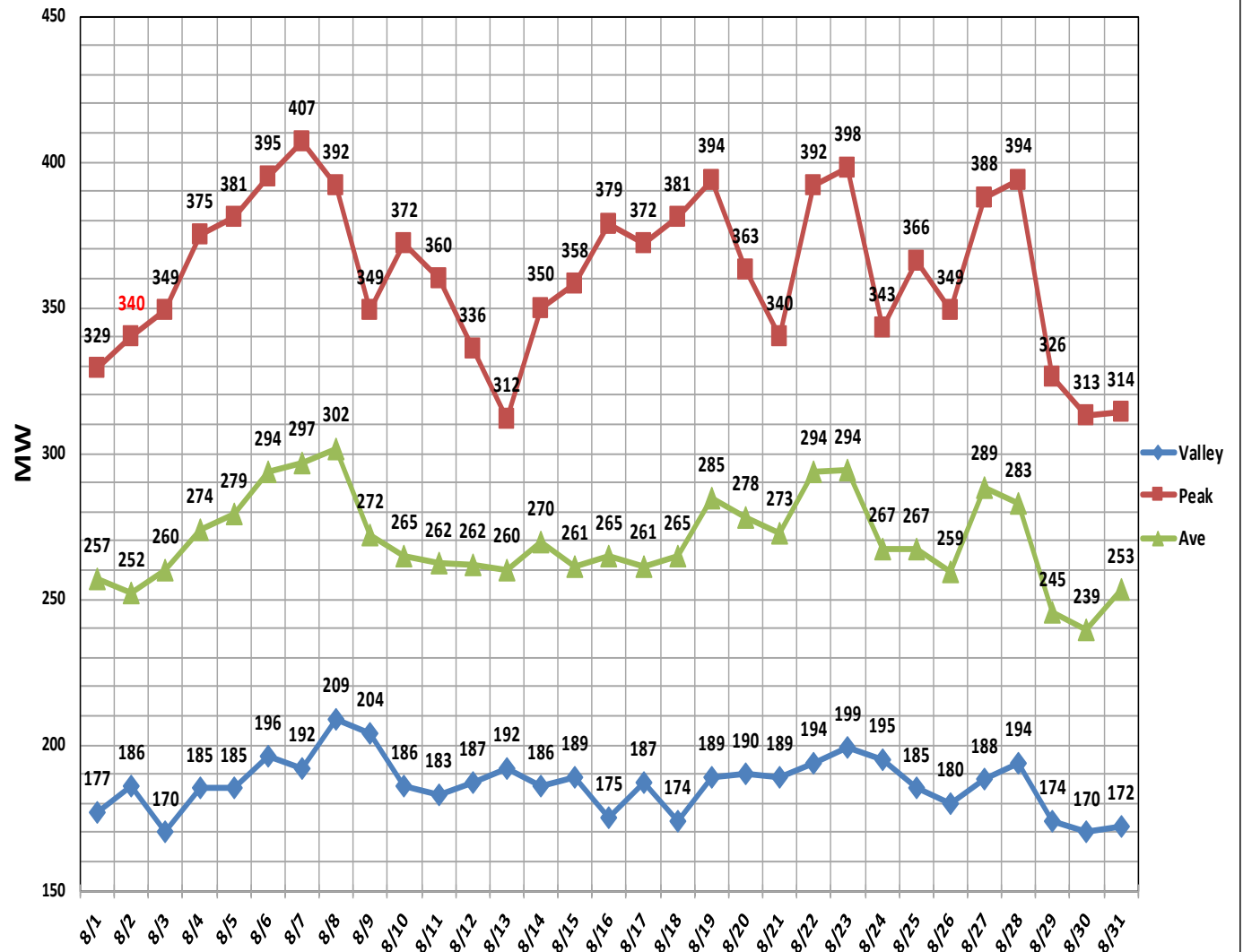


Date	Valley	Peak	Ave
8/1/2019	181	356	266
8/2/2019	190	322	257
8/3/2019	175	353	260
8/4/2019	195	383	285
8/5/2019	199	379	292
8/6/2019	207	369	281
8/7/2019	197	311	264
8/8/2019	199	398	294
8/9/2019	198	407	302
8/10/2019	214	395	302
8/11/2019	220	390	299
8/12/2019	198	413	298
8/13/2019	195	406	305
8/14/2019	211	361	259
8/15/2019	206	311	233
8/16/2019	190	276	218
8/17/2019	182	294	245
8/18/2019	172	302	227
8/19/2019	175	302	250
8/20/2019	181	293	269
8/21/2019	182	299	284
8/22/2019	198	418	303
8/23/2019	201	403	298
8/24/2019	197	402	293
8/25/2019	201	362	284
8/26/2019	195	400	283
8/27/2019	186	360	264
8/28/2019	186	393	286
8/29/2019	201	402	300
8/30/2019	199	332	271
8/31/2019	197	368	281



Date	Valley	Peak	Ave
8/1/2018	177	329	257
8/2/2018	186	340	252
8/3/2018	170	349	260
8/4/2018	185	375	274
8/5/2018	185	381	279
8/6/2018	196	395	294
8/7/2018	192	407	297
8/8/2018	209	392	302
8/9/2018	204	349	272
8/10/2018	186	372	265
8/11/2018	183	360	262
8/12/2018	187	336	262
8/13/2018	192	312	260
8/14/2018	186	350	270
8/15/2018	189	358	261
8/16/2018	175	379	265
8/17/2018	187	381	265
8/18/2018	174	363	273
8/19/2018	189	392	285
8/20/2018	190	340	278
8/21/2018	189	398	273
8/22/2018	194	343	294
8/23/2018	199	366	294
8/24/2018	195	349	267
8/25/2018	185	388	267
8/26/2018	180	349	259
8/27/2018	188	394	289
8/28/2018	194	326	283
8/29/2018	174	313	245
8/30/2018	170	314	239
8/31/2018	172	314	253

August 2018
Peak, Valley, and Average Loads



Major Energy Supply Projects/Milestones Updates

As of September 9, 2019

1. Deerhaven (DH):
 - a. Unit #2: While conducting planned West Pulverizer routine outage discovered cracking and flat spots on the roll wheels that could require full wheel replacement. We have an assured stock program with Babcock & Wilcox for set of replacement wheels if replacement required.
 - b. Combustion Turbine #1 (CT1) is schedule for borescope inspection last week of September.
2. Deerhaven Renewable(DHR):
 - a. Preparing for fall November 2nd through December 2nd, 2019 planned outage. Critical path will be boiler and turbine work.
3. South Energy Center (SEC):
 - a. Steam Chiller is still down and we are coordinating turbine repairs. The Turbine inspection and repairs are in progress at Dresser Rand the Original Equipment Manufacturer (OEM), with no exact estimate of shipping date for return determined yet. This out of service chiller currently has no impact to hospital service we provide.
 - b. The Wartsila 16,000 hour outage started August 7th and ran through August 28th, 2019. Unit fully restored following outage.
 - c. Phase 2 Cooling Tower Fans have been experiencing excessive vibration and premature motor bearing failures. In working with the OEM (Grey Associates) the issue appears to be by design of the water piping above the fans. We are coordinating the moving of the piping for each of the 4 remaining fans, and the warranty replacement of the motors. This is currently having no impact to hospital services we provide.
4. Other:
 - a. DHR Staff Transition briefings have been held with our current and potential future GRU employees, with the target transition date of midnight on October 6, 2019.
 - i. In parallel we are conducting employee orientations to fully support the employees and the transition date.
 - b. Our 5 Solar PPA ITN responses were received on July 25, 2019. We have received the 5 responses and short listed this to 3 vendors to negotiate with.
 - c. Energy Supply is coordinating to provide DHR Biomass Fuel Sourcing Presentation to County Commission on September 24, 2019. This will be the same presentation that was previously presented to both UAB and CCOM earlier this year.

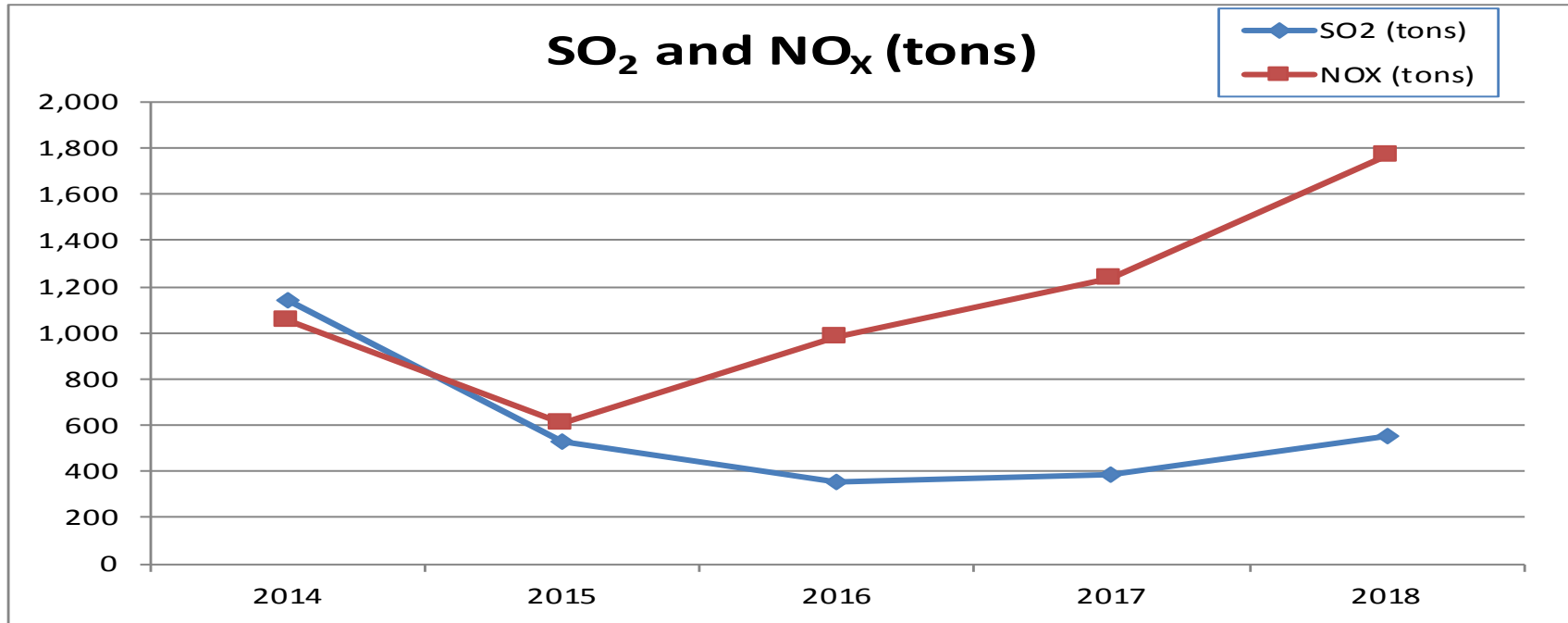
ENVIRONMENTAL PERMITTING

Emissions Data

Yearly Emissions

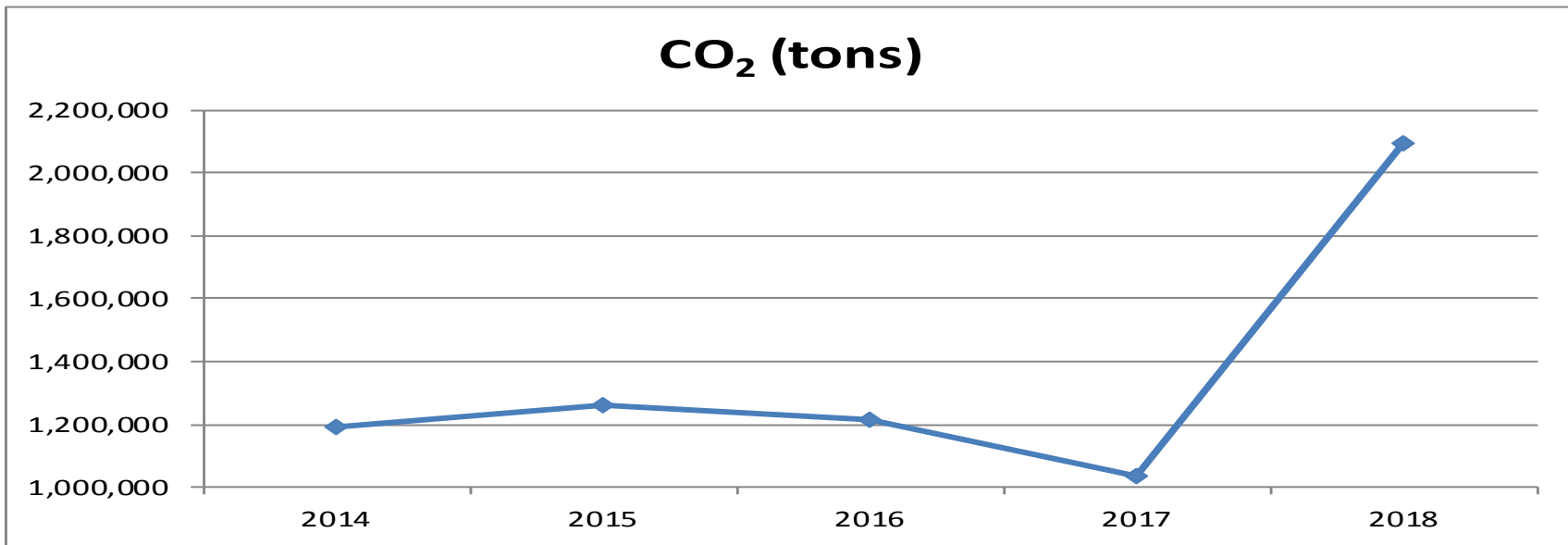
	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)
2014	1,144	1,052	6.23	32	1,192,647
2015	532	608	5.49	47	1,260,423
2016	354	984	2.92	61	1,216,690
2017	389	1,239	2.40	52	1,037,711
2018	551	1,770	3.80	55	2,096,289
2019 (Jan-Aug.)	444	1,248	3.52	33	1,404,920

**Mercury and Particulate values are for Unit 2 only.
DHR data included starting in 2018.**

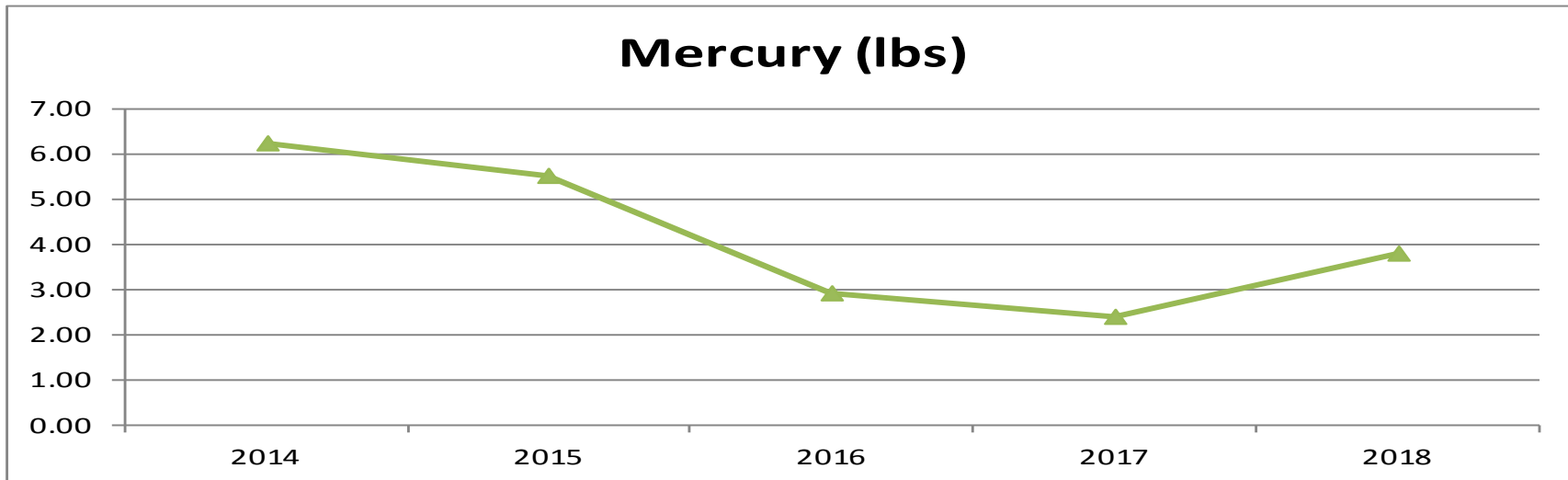


SO₂ lower in 2015, 2016, 2017 due to higher removal rate settings to comply with MATS Rule. NO_x was higher in 2016 since it was more cost effective to use allowances than increase SCR removal rate. NO_x was higher in 2017 and 2018 since the Cross State Rule was no longer in effect for Florida. DHR data included starting in 2018.

Yearly Emissions

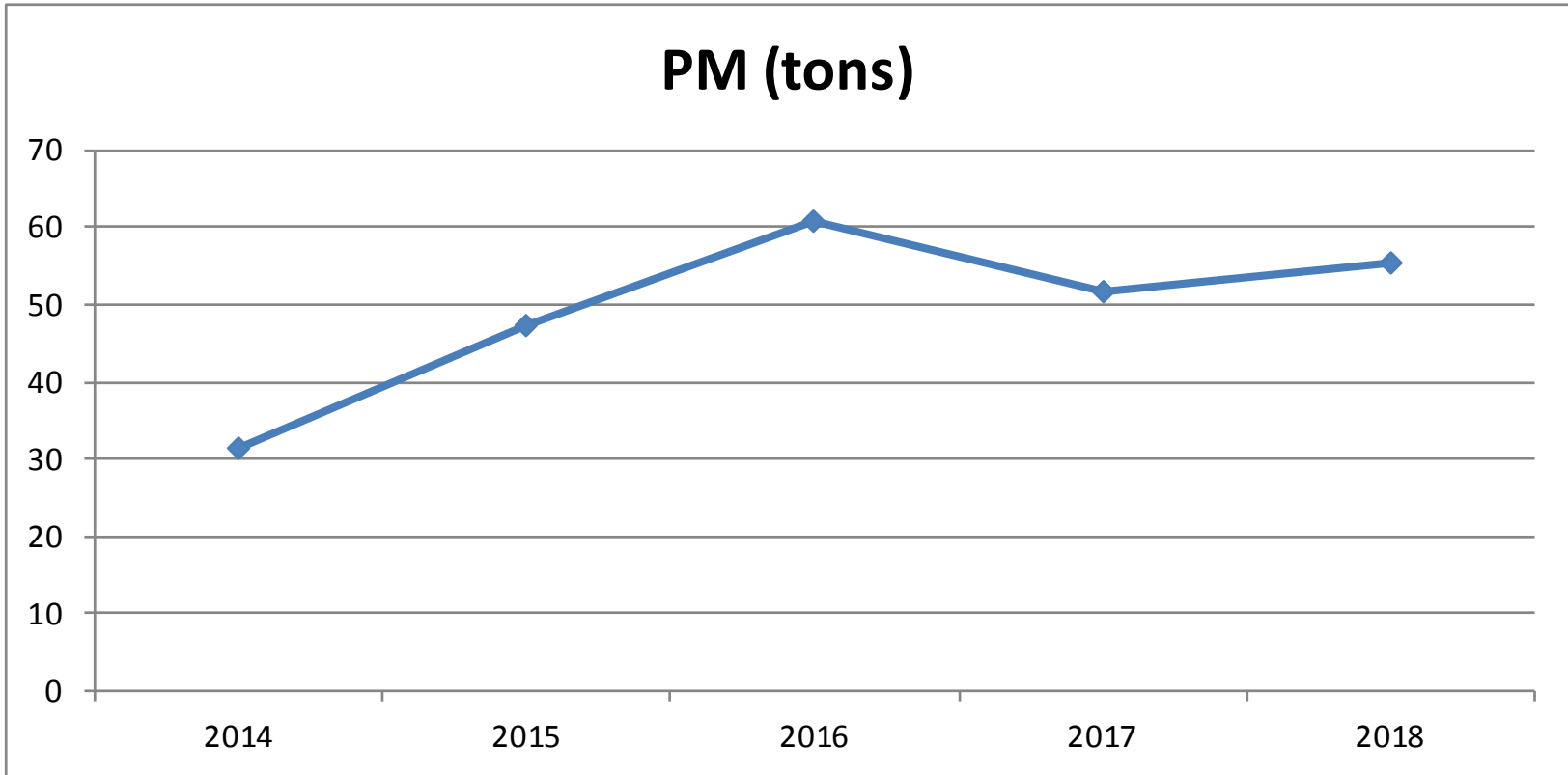


DHR data included starting in 2018.



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

Yearly Emissions



2019 YTD (Jan.-Aug.)

	SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
DH1	5.5	107.4			81,341.9	1,366,167.0	112,210.0
DH2	425.2	906.3	3.52	33.0	514,398.1	5,015,036.0	543,797.0
DHCT3	0.0	1.2			4,325.6	72,759.0	5,224.0
JRKCC1	0.6	32.2			124,380.2	2,092,951.0	236,309.0
DHR	12.3	200.6			680,473.9	6,522,794.5	491,922.6
TOTAL	443.6	1,247.7	3.521	33.0	1,404,919.7	15,069,707.5	1,389,462.6

2019 - August

	SO₂ (tons)	NO_x (tons)	Mercury (lbs)	PM (tons)	CO₂ (tons)	HTIP (MMBtu)	GEN (MW-hours)
DH1	0.1	18.1			14,752.6	248,236.0	19,382.0
DH2	51.0	96.1	0.3	3.7	56,829.7	554,869.0	58,050.0
DHCT3	0.0	0.1			277.0	4,672.0	300.0
JRKCC1	0.2	8.5			39,757.4	668,996.0	76,385.0
DHR	1.8	27.9			96,853.2	928,479.9	67,159.5
TOTAL	53.1	150.7	0.314	3.7	208,469.9	2,405,252.9	221,276.5

WATER/WASTEWATER

Production

Maintenance

Projects

Water/Wastewater August Dashboard

Production						
Murphree Water Treatment Plant						
		August 2019	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	23.4	22.9	30	76%	
	Peak Daily Flow	27.0	26.3	54	49%	
Main Street Water Reclamation Facility						
		August 2019	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	8.3	6.5	7.5	86%	
Kanapaha Water Reclamation Facility						
		August 2019	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	14.2	12.1	14.9	81%	
Water Reclamation Facilities (Combined)						
		August 2019	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.5	18.6	22.4	83%	
Maintenance						
Wastewater Collections						
		August 2019 (Miles)	FYTD	Monthly Goal (miles)		
	Miles of gravity mains cleaned	4.8	77	5.0		
	Miles of gravity mains TV inspected	4.9	60	5.0		
Water Distribution						
		August 2019	FYTD	Monthly Goal		
	Number of Water Services Replaced	106	964	75		
SSO Monthly Summary						
		August	YTD	GOAL		
	Sanitary Sewer Overflows	2	18	<16		

W/WW Major Projects and Other Updates

1. MWTP Electric System Upgrade - Preparing for startup and cutover to new equipment, item by item.
2. MSWRF - Aeration Basin and Headworks project planning and design are underway. East Clarifier rehabilitation complete and operational.
3. Gravity Sewer Lining - Priorities being implemented with a goal to line at least 10 miles of gravity sewer in FY19.
4. KWRF - headwork repairs complete and back in service.