

STATE OF THE UTILITY

Operational Update

June 2020

Item #200382

OPERATIONS SUMMARY

CORPORATE SAFETY

COMPLIANCE

ENVIRONMENTAL

REGULATORY

PERSONNEL

June 2020

Safety

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

Employees

First Aid	Year to Date Recordable	DART
1	0	0
3	5	2
2	2	1
0	3	3
0	0	0
	10	

	Miles Driven*	Current Month Recordable	Preventable
Administration	3,367	0	0
W/WW Systems	81,094	0	0
Energy Supply	1,323	0	0
Energy Delivery - Electric/Gas	137,184	2	1
GRUCom	7,099	0	0
Totals	230,067	2	1

*Mileage data is for May 2020. June mileage data will be included in July report.

Vehicles

Miles Driven*	Year to Date Recordable	Preventable
93,828	0	0
597,104	6	4
19,706	0	0
843,474	7	4
64,706	0	0
1,618,818	13	8

Mileage YTD through May 2020

Environmental

	Current Month
Notices of Violation	0

Calendar Year to Date
0

Emissions

DH1, DH2, DHCT3, JRKCC1

CO ₂ (tons)	91,882
NO _x (tons)	84
SO ₂ (tons)	35

417,512
349
89

DH Unit 2 (only)

PM _{FILT} (tons)	1
Hg (lbs)	0.00

11
0.96

DHR

CO ₂ (tons)	73,786
NO _x (tons)	24
SO ₂ (tons)	1

405,220
121
8

Regulatory

NERC

Notice of Violations	0
Self Reports/Potential Violations	0

1
6

Personnel

Row Labels	AUTHORIZED_FTE	FILLED_FTE	VACANCY	Last Month (May)
Administration	16.00	12.00	4.00	3.00
Chief Operating Officer	20.00	19.00	1.00	1.00
Customer Support Services	118.25	110.25	8.00	10.25
Energy Delivery	264.00	250.00	14.00	11.00
Energy Supply	182.00	167.00	15.00	16.00
Energy Supply - District Energy	11.00	11.00	0.00	0.00
Finance	42.00	29.00	13.00	12.00
GRUCom	38.00	29.00	9.00	9.00
Information Technology	71.00	64.00	7.00	8.00
Water Wastewater	168.00	163.00	5.00	6.00
Grand Total	930.25	854.25	76.00	76.25

Filled FTE's do not include temporary employees or interns

Filled FTE's do include staffed overfills

Utility Advisory Board Monthly Report – FY 2020 Safety Data Summary

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

OCTOBER

- None reported

NOVEMBER

- 11/13/2019 – While exiting his truck, employee turned on his right knee and felt a "pop". Went for treatment the next day and was given a prescription.
- 11/19/2019 – Employee cut right thumb with knife. (DART)

DECEMBER

- 12/5/2019 – Employee was stung by a yellow jacket and had allergic reaction.

JANUARY

- None reported

FEBRUARY

- 2/6/2020 – Employee's hand got caught between two conveyor rollers. (DART)
- 2/17/2020 – Employee was walking through an overgrown area while clearing a sewer line easement. He tripped on a vine and fell to the ground, straining his back. (DART)
- 2/27/2020 – While replacing a water meter yoke, the back of the employee's right middle finger was cut from a piece of glass buried in the soil. (DART)

MARCH

- None reported

APRIL

- 4/22/2020 – At the end of regular duties of the day, employee felt sharp pain in the back. Followed up the next day and pain was still strong. Sent for medical evaluation and diagnosed with back strain

MAY

- 5/13/2020 – Employee cut his left finger when guided wire came up against his hand while removing old material. Stiches in finger. (DART)
- 5/21/2020 – Employee strained lower back while putting a test set in work van. RD started 6/1/20. DART)

JUNE

- 6/16/2020 – While loosening a bolt, employee put his hand behind the bolt to loosen it. When the bolt spun, it ripped off the nail of the left index finger.

Utility Advisory Board Monthly Report – FY 2019 Vehicle Collision Summary

Vehicle Collisions (P) indicates preventable by our employee

OCTOBER

- None reported

NOVEMBER

- 11/5/2019 – While stopped at the traffic sign on NW 11th Avenue at NW 6th Street, a citizen backed out of a private drive into the tires of U1705, a trailer being towed by U1891. There was no damage to our trailer and no injury.
- 11/12/2019 – A dump truck & trailer were stopped at a traffic sign. A bus was trying to make a turn onto the street, but could not complete the turn. The employee looked in his mirrors, and not seeing anyone, backed up to allow the bus to turn. A citizen's car was stopped directly behind the trailer, and the trailer damaged the car's front grill. (P)

DECEMBER

- None reported

JANUARY

- None reported

FEBRUARY

- 2/5/2020 – While driving a service truck with a trailer westbound on East University Ave, a citizen tried to change lanes and collided with the left front corner of the truck. The person did not stay at the scene. Law Enforcement took and report and will follow up.

MARCH

- 3/27/2020 – An employee driving truck U1961 scraped the back bumper of an unoccupied parked vehicle causing rear bumper damage to the private vehicle. Employee was making a left hand turn into a parking lot near work site and stated that vehicle exiting parking lot was not stopping, so in an effort to allow more space inadvertently made contact with the private vehicle on the opposite side of the approaching vehicle. There was no injury or damage to the GRU vehicle. (P)

APRIL

- 4/10/2020 – Private vehicle backed out in front of GRU vehicle, scuffing GRU vehicle's front left bumper and doing minor damage on private vehicles left rear quarter panel.
- 4/21/2020 – Employee pulled off to the edge of a narrow lane to allow a delivery vehicle to pass and did not notice a short wall that was contacted on the passenger's side of the vehicle. (P)
- 4/22/2020 – Employee pulled off to the edge of a narrow lane to allow a landscape truck and trailer to pass, and the trailer contacted our rear bumper on the left side as it passed by causing damage to the bumper only.
- 4/22/2020 – Stopped at the intersection on his way into work. After allowing a car to go by, he started to pull out, but a large P/U came around the curve at high speed, the employee could

not get out into the lane fast enough, so he backed out of the way, colliding with a car behind him. no injuries. (P)

- 4/30/2020 – After pulling out of a construction site, the driver of a GRU service truck stopped to talk to another operator. He started to back up not knowing a USPS delivery truck had pulled up behind him. Our truck made contact with the USPS front bumper before stopping. There was no damage to either vehicle and no injury. (P)

MAY

- 5/16/2020 – While repairing a water leak, a citizen asked the employee to move his vehicle. As he was backing up, he scraped a line of paint off the rear right bin door against a metal sign that extended over the curb. (P)
- 5/26/2020 – Employee turned to sharp and ran up on a raised median and struck a fire hydrant with the passenger side of her truck causing minor damage to hydrant and truck. (P)

JUNE

- 6/22/2020 – Employee sitting at red light and let his foot slip off break causing truck to roll forward. The cone rack on the front of the truck struck the back lift gate causing minor damage. (P)
- 6/24/2020 – Employee was stopped in traffic and was rear ended by a car. No damage to city vehicle, lot of damage to front end of other vehicle.

Utility Advisory Board Monthly Report – FY 2020 NERC compliance

Penalty violations

<u>Determination date</u>	<u>Description</u>
N/A	No penalties to-date for FY 2020

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

<u>Determination date</u>	<u>Description</u>
11/14/2019	14 Cyber Assets were not properly configured to send event logs to the central logging server, which is required to generate alerts for specific log types

Potential violations (Pending regulatory agency determination)

<u>Report date</u>	<u>Description</u>
6/6/2019 (FY2019)	35 Cyber Assets were delayed in being included under GRU's Critical Infrastructure Protection (CIP) program
10/4/2019	Two relay settings not adjusted in accordance with PRC-023-4 for 18 months
2/20/2020	[Audit finding from Regional auditor]. System Operating Limit exceeds Facility Rating for Line 14.
3/3/2020	Failure to issue door alarms for 5 days due to email system configuration error
4/16/2020	Failure to update baseline documents within 30 days of a change to a cyber asset
4/17/2020	Failure to verify at least once each calendar quarter that individuals with active electronic access or unescorted physical access have authorization records

CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

Customer Operations Metrics Summary June 2020

Active Accounts	Jun-20	YTD Gain/Loss	FY19
<i>Residential Contract Accounts</i>			
Total	93,038	1,215	91,823
Electric	85,952	888	85,064
Gas	34,192	387	33,805
Water	64,072	492	63,580
Wastewater	59,895	409	59,486
Telecomm	100	(17)	117

New Installations	Jun-20	FY20 To Date	FY19
Electric	281	1439	1393
Gas	72	419	512
Water	82	549	654
Wastewater	73	482	614
Telecomm	10	108	141

Call Center Volume	Jun-20	FY20 To Date	FY19
Residential ASA	0:06:05	0:02:18	0:06:26
Business ASA	0:00:49	0:01:30	0:02:49
CSR Calls	15,134	128,495	151,278
CSR Callbacks	0	2,348	19,343
IVR Self Service	15,721	150,574	227,577
Total	30,855	281,417	398,198
IVR/Total	51%	54%	57%

Bills Generated	Jun-20	FY20 To Date	FY19
Paper Bills	126,135	982,616	1,278,441
eBills	21,215	177,220	212,879
Total	147,350	1,159,836	1,491,320
eBill/Total	14%	15%	14%

Payment Arrangements	Jun-20	FY20 To Date	FY19
Total	69	3,690	9,797

Active Accounts	Jun-20	YTD Gain/Loss	FY19
<i>Nonresidential Contract Accounts</i>			
Total	13,636	40	13,596
Electric	11,041	16	11,025
Gas	1,661	4	1,657
Water	5,919	27	5,892
Wastewater	4,679	(6)	4,685
Telecomm	399	7	392

Residential Disconnects	Jun-20	FY20 To Date	FY19
Volume	0	6,950	14,076
Average Balance	\$0.00	\$189.36	\$246.88

Revenue Assurance	Jun-20	FY20 To Date	FY19
Referred to Collections	\$60,121.54	\$1,121,240.30	\$1,948,001.43
Recovered	\$76,830.06	\$592,004.09	\$796,259.96

Service Orders	Jun-20	FY20 To Date	FY19
Move Ins	9,378	63,586	109,537
Move Outs	9,758	62,474	109,795

Average Res Bill Amounts	Jun-20	FY20 To Date	FY19
Electric (kWh)	874	748	836
Electric (\$)	\$127.27	\$113.89	\$122.20
Gas (Therms)	11	21	19
Gas (\$)	\$23.50	\$36.08	\$32.72
Water (kGals)	5	5	6
Water (\$)	\$32.67	\$31.43	\$28.61
Wastewater (kGals)	5	5	7
Wastewater(\$)	\$37.15	\$37.97	\$34.25

7/9/2020

ENERGY DELIVERY

System Consumption

System Reliability

Major Projects – Electric & Gas

ENERGY DELIVERY - UAB REPORT - MAY 2020

Durations Reliability Report Between 06/01/2020 and 06/30/2020

Excludes Extreme Weather and Generation/Transmission Disturbances

CUSTOMER DATA		RELIABILITY INDICES		MONTHLY AVG GOAL
Monthly Average Customers Served(C)	99,186	Average Service Availability Index (ASAI)	99.9743%	
Total Hours of Customer Demand	69,033,456	System Average Interruption Duration Index (SAIDI)	10.72	4.5
Total Number of Outages	89	Customer Average Interruption Duration Index (CAIDI)	82.07	55
Total Number of Customers Affected (CI)	12,952	System average Interruption Frequency Index (SAIFI)	0.13	0.08
Total Customer Minutes Interrupted (CMI)	1,063,013			
Total Customer "Out Minutes"	12,025	Average Length of a Service Interruption (L-Bar)	135.11 Mins	

Cause of Outages				
Cause	Overhead	Underground	Both	Total
0. Undetermined	6	0	0	6
1. Weather	1	0	0	1
2. Vegetation	37	0	1	38
3. Animals	5	0	0	5
4. Foreign Interference	0	0	0	0
5. Human Cause	5	2	0	7
6. Equipment Failure	9	18	3	30
7. All Remaining Outages	0	0	0	0
Total	63	20	4	87

Durations Reliability Report Between 01/01/2020 and 06/30/2020*

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

CUSTOMER DATA		RELIABILITY INDICES		GRU YTD GOALS
Monthly Average Customers Served(C)	99,186	Average Service Availability Index (ASAI)	99.9856%	
Total Hours of Customer Demand	430,863,984	System Average Interruption Duration Index (SAIDI)	37.58	27
Total Number of Outages	333	Customer Average Interruption Duration Index (CAIDI)	73.84	55
Total Number of Customers Affected (CI)	50,483	System average Interruption Frequency Index (SAIFI)	0.51	0.48
Total Customer Minutes Interrupted (CMI)	3,727,615			
Total Customer "Out Minutes"	59,440	Average Length of a Service Interruption (L-Bar)	178.5 Mins	

ENERGY DELIVERY - UAB REPORT - MAY 2020

	GRU	GRU	EIA - All	EIA - Public	FMPA
	CY 20 Goal	CY 2019 Actual	CY 2018	CY 2018	CY 2019
SAIDI	54 Mins	56.72	143.37	63.12	74.51
CAIDI	55 Mins	66.8	75.86	78.98	60.89
SAIFI	0.96	0.85	1.82	0.85	1.230

Notes on EIA and FMPA Data:

1. EIA - All data is Florida only and includes co-ops, IOU's and municipals
2. FMPA data includes 23 municipals in Florida
3. Breakdown:

Number of Utilities Submitting Data in FL

All	Coop	IOU	Public Power
37	13	5	19

Cause of Outages				
Cause	Overhead	Underground	Both	Total
0. Undetermined	17	1	3	21
1. Weather	8	0	1	9
2. Vegetation	132	2	4	138
3. Animals	19	0	2	21
4. Foreign Interference	0	0	0	0
5. Human Cause	21	9	2	32
6. Equipment Failure	35	53	18	106
7. All Remaining Outages	0	0	4	4
Total	232	65	34	331
* REPORTED AS CALENDAR YEAR				

ENERGY DELIVERY - UAB REPORT - MAY 2020

Durations Reliability Report Between 06/01/2020 and 06/30/2020

	2020		2019	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Feed-In-Tariff - Residential	48 KWH	101	55 KWH	100
Feed-In-Tariff - General Service	1,724 KWH	157	2,427 KWH	156
Electric - GS - Demand - Regular	46,345,061 KWH	1,188	57,296,814 KWH	1,216
Electric - General Service Demand PV	942,225 KWH	22	846,113 KWH	18
Electric - GS - Kanapaha w Curtail Cr	1,101,600 KWH	1	1,089,600 KWH	1
Electric - GS - Demand - Large Power	8,072,960 KWH	7	8,146,200 KWH	6
Electric - GS - Murphree Curtail Credit	1,564,800 KWH	1	1,600,800 KWH	1
Electric - GS Large Demand PV	3,888,000 KWH	2	4,298,400 KWH	2
Electric - GS - Non Demand	14,571,528 KWH	9,899	18,157,393 KWH	9,796
Electric - General Service PV	113,417 KWH	71	151,577 KWH	63
Electric - Lighting - Rental	943,534 KWH	4,017 n	981,474 KWH	4,143 n
Electric - Lighting - Street - City	573,756 KWH	12 n	719,749 KWH	12 n
Electric - Lighting - Street - County	131,447 KWH	2 n	155,178 KWH	2 n
Electric - Lighting - Traffic	4,542 KWH	2	4,542 KWH	2 n
Electric - Residential - Non TOU	74,335,758 KWH	87,810	87,974,620 KWH	86,515
Electric - Residential PV	297,160 KWH	454	300,032 KWH	364
Total Retail Electric	152,887,560 KWH	99,715	181,724,974 KWH	98,238
(n =not included in total customer count)				
City of Alachua	12,241,000 KWH KWH	26,912 KW	12,989,000 KWH	27,905 KW
Total (Native) Electric	165,128,560 KWH		194,713,974 KWH	

Gas System Consumption

	2020		2019	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Gas - GS - Regular Service (Firm)	540,577 THM	1,372	609,249 THM	1,371
Gas - GS - Regular Service (Small)	4,754 THM	314	7,027 THM	294
Gas - GS - Interruptible - Regular Serv	41,574 THM	1	16,000 THM	1
Gas - GS - Interruptible - Large Volume	390,399 THM	7	353,185 THM	7
Gas - Residential - Regular Service	358,675 THM	34,470	334,506 THM	34,095
Total Retail Gas	1,335,979 THM	36,164	1,319,967 THM	35,768
Gas - GS - UF Cogeneration Plant	2,457,260 THM	1	2,814,976 THM	1
Gas - Residential - LP - Basic Rate	3,009 GAL	204	2,432 GAL	203

*Obtained from Monthly Billing Summary prepared by Todd Kamhoot.

ENERGY DELIVERY - UAB REPORT - MAY 2020

Durations Reliability Report Between 06/01/2020 and 06/30/2020

Major Electric Design Projects

West

- > Celebration Pointe (Commercial & Residential Development)
- > Tower Road Mixed Use Development (Market's West)/Grand Oaks (Phase 2 single family residences)
- > Newberry Park TND - SW 122nd & Newberry Road - 149,590 s.f. (mixed use)
- > 8th Ave OH to UG Conversion (Ph. 3)
- > FDOT Light Project / Archer Road / FDOT Road Project

East

- > Murphree Water Plant (OH to UG Conversion and rebuilt)
- > CRA Heartwood Subdivision (former Kennedy Homes)
- > Hub on Campus I (8 story mixed-use development)
- > One College Park (apartments)
- > Airport OH to UG conversion Project

Major Gas Design Projects:

- > Main Installation – Main Installation - Town of Tioga Ph 19 - 1570'
- > Main Installation – Main Replacement - SW 9th St - 3215'
- > Main Installation – Oakmont Subdivision – ongoing – 10600'
- > Main Installation – Main Extension – Belvedere Hts Sub – 2900 Blk NW 6th St – 4756'

ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

June 2020

Energy Supply - CAPACITY

Energy Supply - Performance Parameter

Source

Unit Capability output - MWn

DH-2	228
DH-1	75
Kelly CC	108
CT's	106
Grid	2 x 224
DHR	102.5

Month YTD Budget YTD Delta Budget

38,449	240,224	371,361	(131,137)
12,497	102,570	21,261	81,309
75,819	510,102	677,825	(167,723)
248	1,972	551	1,421
13,810	50,795	114,142	(63,347)
40,999	310,822	171,753	139,069

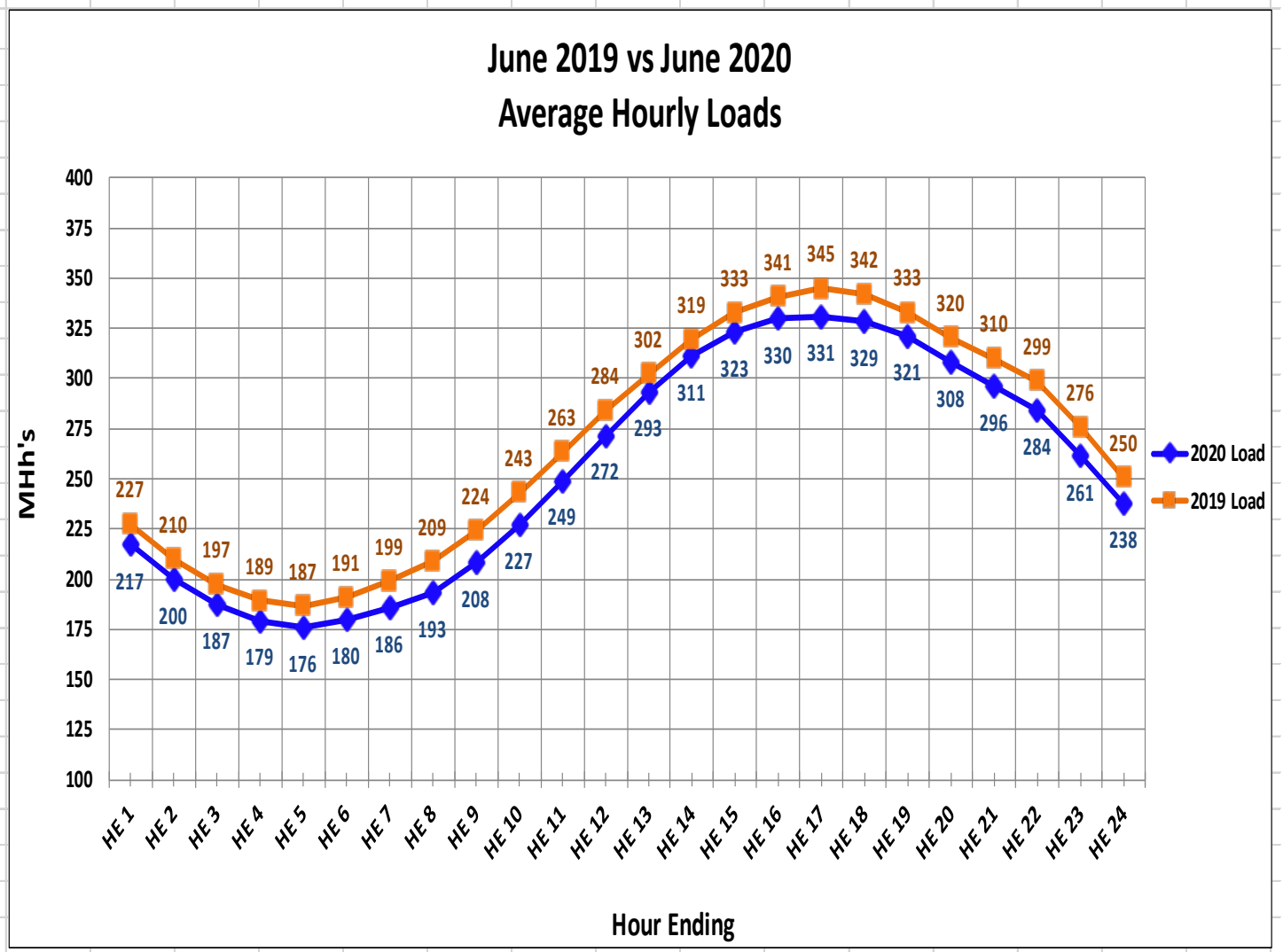
Fuels Consumed

	Month	FYTD	Budget YTD	Delta Budget
Coal - Tons	12,317	78,306	204,533	(126,227)
Gas - MCF	952,050	8,091,290	6,191,961	1,899,329
Fuel oil - Gals	-	1,327	-	1,327
Biomass - Tons	56,557	453,505	220,168	233,337

Availability/Capacity

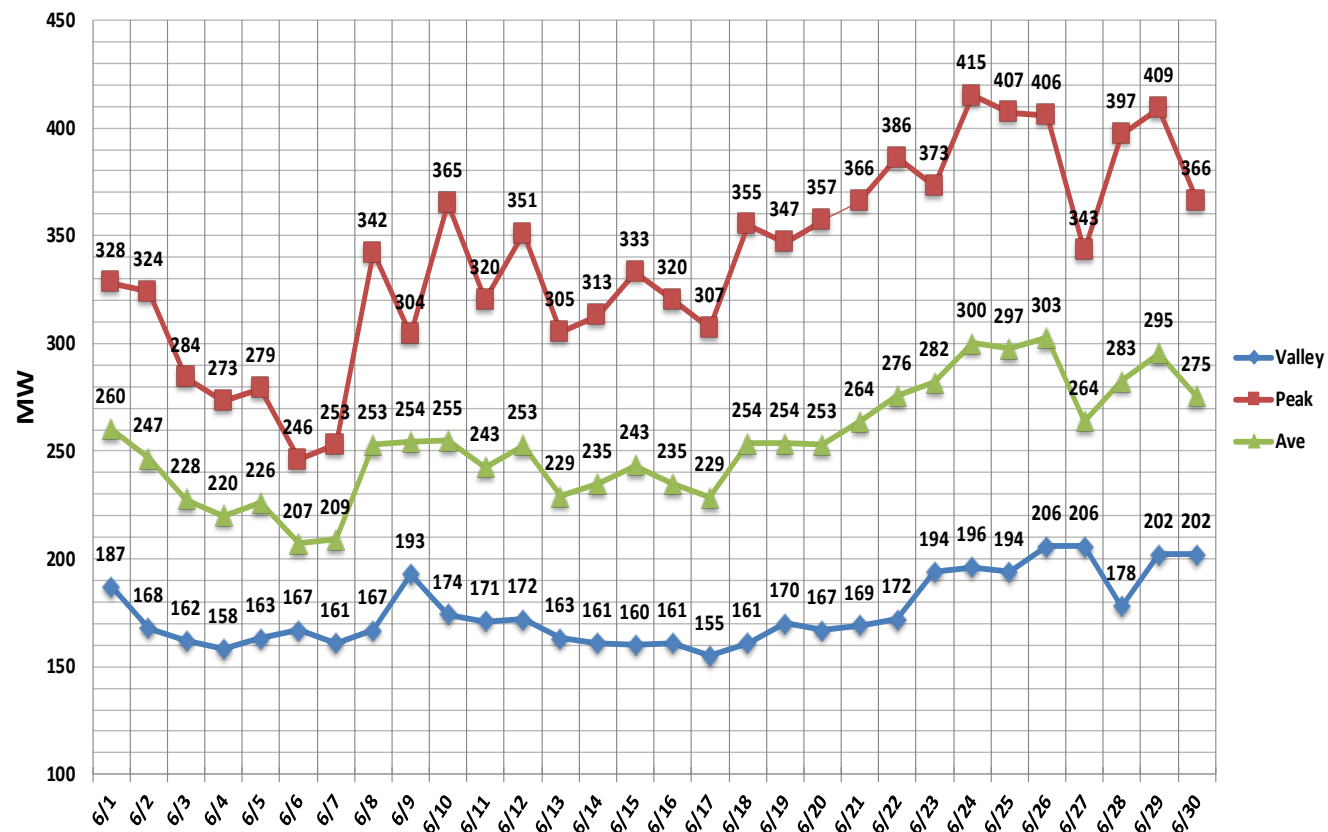
	Availability			Capacity		
	Month	FY 2020 YTD	FY 2019 YTD	Month	FY 2020 YTD	FY 2019 YTD
DH-2	84.68%	73.00%	82.73%	25.69%	17.79%	31.40%
DH-1	95.14%	89.42%	99.51%	23.73%	27.16%	25.55%
Kelly CC	100.00%	92.28%	79.48%	96.98%	84.29%	51.87%
DH CT-1	100.00%	97.51%	99.50%	0.05%	0.28%	0.18%
DH CT-2	100.00%	97.71%	95.50%	0.07%	0.28%	0.12%
DH CT-3	100.00%	99.50%	84.50%	0.37%	0.26%	1.44%
DHR	99.04%	89.01%	90.17%	59.19%	52.00%	71.92%

June Average Hourly Loads		
Hour Ending	2019 Load	2020 Load
HE 1	227	217
HE 2	210	200
HE 3	197	187
HE 4	189	179
HE 5	187	176
HE 6	191	180
HE 7	199	186
HE 8	209	193
HE 9	224	208
HE 10	243	227
HE 11	263	249
HE 12	284	272
HE 13	302	293
HE 14	319	311
HE 15	333	323
HE 16	341	330
HE 17	345	331
HE 18	342	329
HE 19	333	321
HE 20	320	308
HE 21	310	296
HE 22	299	284
HE 23	276	261
HE 24	250	238



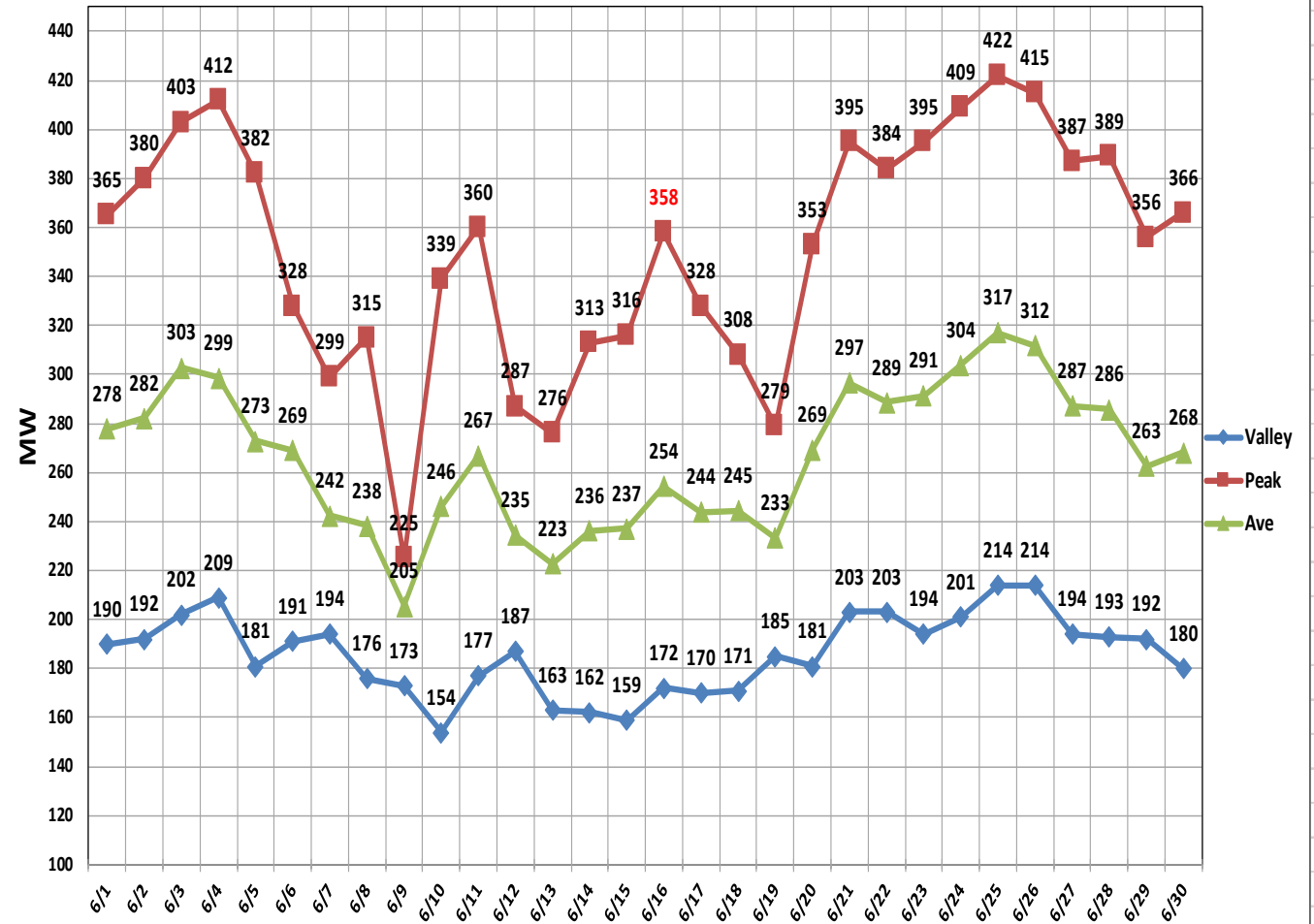
Date	Valley	Peak	Ave
6/1/2020	187	328	260
6/2/2020	168	324	247
6/3/2020	162	284	228
6/4/2020	158	273	220
6/5/2020	163	279	226
6/6/2020	167	246	207
6/7/2020	161	253	209
6/8/2020	167	342	253
6/9/2020	193	304	254
6/10/2020	174	365	255
6/11/2020	171	320	243
6/12/2020	172	351	253
6/13/2020	163	305	229
6/14/2020	161	313	235
6/15/2020	160	333	243
6/16/2020	161	320	235
6/17/2020	155	307	229
6/18/2020	161	355	254
6/19/2020	170	347	254
6/20/2020	167	357	253
6/21/2020	169	366	264
6/22/2020	172	373	276
6/23/2020	194	386	282
6/24/2020	196	415	300
6/25/2020	194	407	297
6/26/2020	206	406	303
6/27/2020	206	343	264
6/28/2020	178	397	283
6/29/2020	202	409	295
6/30/2020	202	366	275

June 2020
Peak, Valley, and Average Loads



Date	Valley	Peak	Ave
6/1/2019	190	365	278
6/2/2019	192	380	282
6/3/2019	202	403	303
6/4/2019	209	412	299
6/5/2019	181	382	273
6/6/2019	191	328	269
6/7/2019	194	299	242
6/8/2019	176	315	238
6/9/2019	173	225	205
6/10/2019	154	339	246
6/11/2019	177	360	267
6/12/2019	187	287	235
6/13/2019	163	276	223
6/14/2019	162	313	236
6/15/2019	159	316	237
6/16/2019	172	358	254
6/17/2019	170	328	244
6/18/2019	171	308	245
6/19/2019	185	279	233
6/20/2019	181	353	269
6/21/2019	203	395	297
6/22/2019	203	384	289
6/23/2019	194	395	291
6/24/2019	201	409	304
6/25/2019	214	422	317
6/26/2019	214	415	312
6/27/2019	194	387	287
6/28/2019	193	389	286
6/29/2019	192	356	263
6/30/2019	180	366	268

June 2019
Peak, Valley, and Average Loads



Date: As of June 5th, 2020: Major Energy Supply Projects/Milestones Updates:

1. Deerhaven Generating Station (DH):
 - a. Deerhaven Unit #2 (DH2) was in a forced outage from 5/20 to 5/24/2020 due to Boiler Economizer tube leak. Leak was repaired and hydrostatically tested, and unit released to service on 5/24/2020.
 - i. On 6/4/2020 the plant is reporting another possible tube leak in boiler economizer in close proximity to the first leak. This evaluation is ongoing to determine optimum plan to address this repair.
 - b. DH2: We are working the Boiler Original Equipment Manufacturer (Babcock & Wilcox), and engineering firm Sargent & Lundy to conduct due Diligence Study for the conversion of the unit to a dual fuel capability. Presentations on the initial findings of the study, and authorization to proceed with project, will be presented to both the UAB and CCOM in June 2020.
 - c. Deerhaven Unit #1 (DH1) we have started and initial conversation with the turbine Original Equipment Manufacturer (Siemens) to determine process to evaluate the possible life extension of this turbine beyond the planned retirement date on 12/31/2022.
2. Kelly Generating Station (JRK):
 - a. Unit #8 Steam Turbine and Generator replacement. All the fabrication and coordination for new turbine and generator is still progressing as planned, with outage planned to start in late January or 2021.
3. South Energy Center (SEC):
 - a. Wartsila Engine 24,000 hour planned outage has been coordinated with UF Health, and set to start week of 6/15/2020.
4. Other:
 - a. The Solar Intent to Negotiate (ITN) negotiation process is complete. This has been presented to UAB with the Board's recommendation to concur with this project, and take to CCOM for approval. At direction legal counsel this will be presented to the CCOM at the next in person, vs virtual, CCOM Meeting.

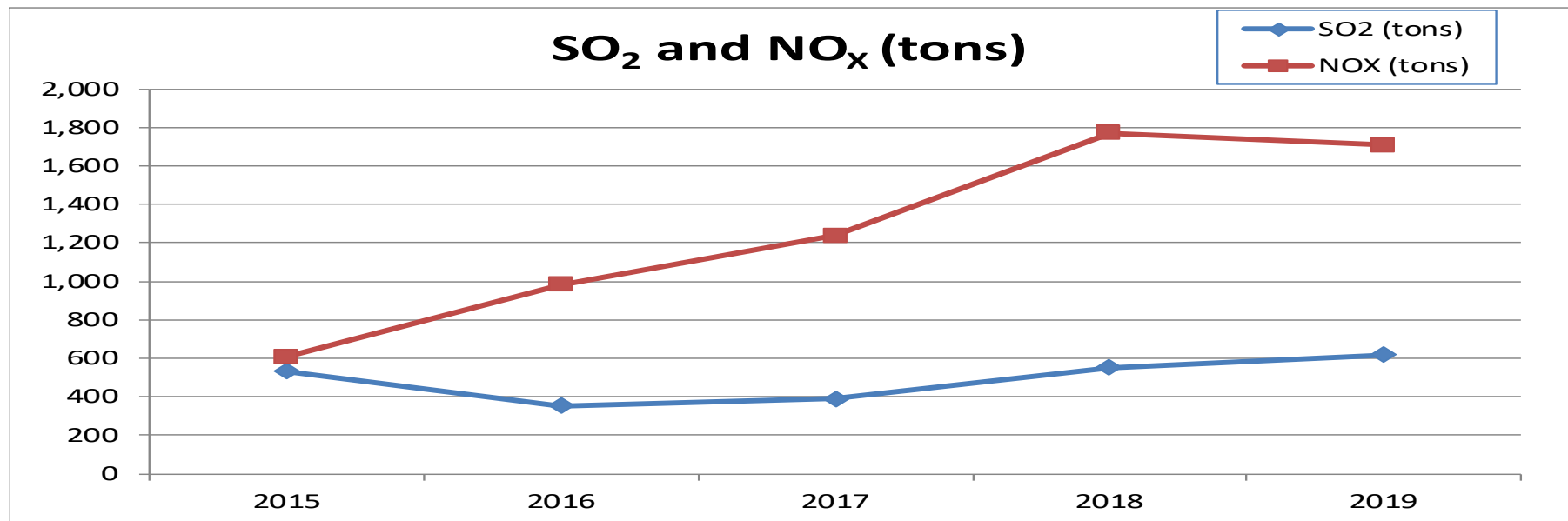
ENVIRONMENTAL PERMITTING

EMISSIONS DATA

Yearly Emissions

	SO ₂ (tons)	NO _x (tons)	Mercury (lbs)	PM (tons)	CO ₂ (tons)
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	618	1,707	5.30	49	2,020,310
2020 (June)	97	470	0.96	11	822,732

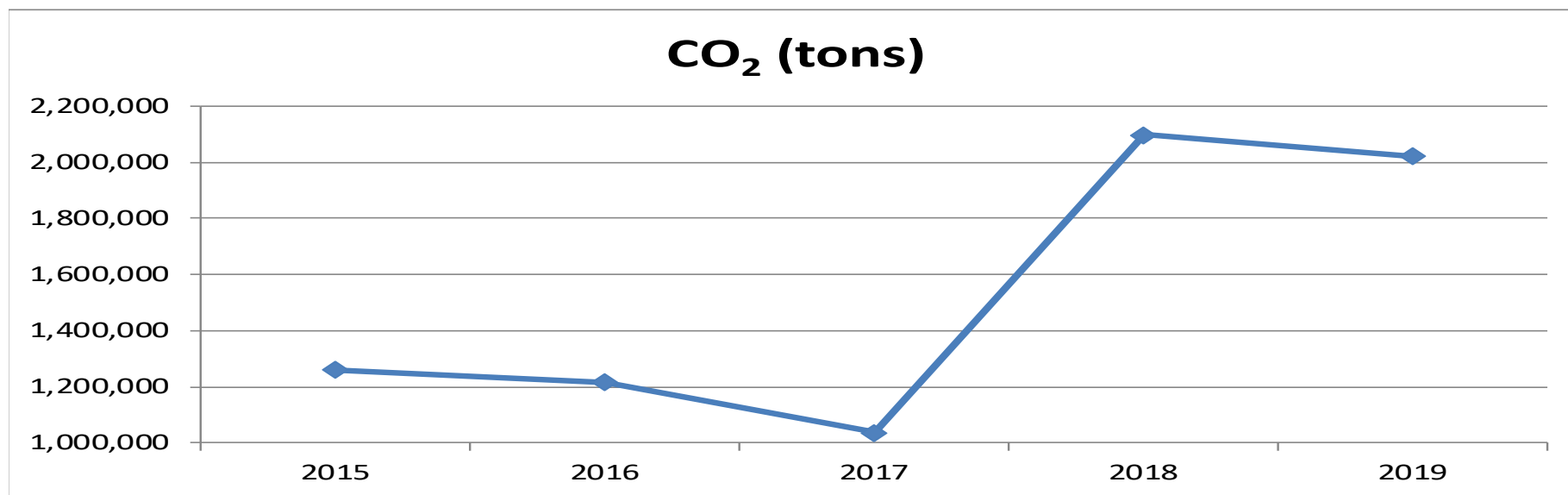
2017, 2018, 2019 and 2020 Mercury and Particulate values are for Unit 2 only.



SO₂ lower in 2015, 2016, 2017 due to higher removal rate settings for compliance 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 since the Cross State Rule was no longer in effect for Florida. 2018 and later data include DHR. The previous years did not include DHR.

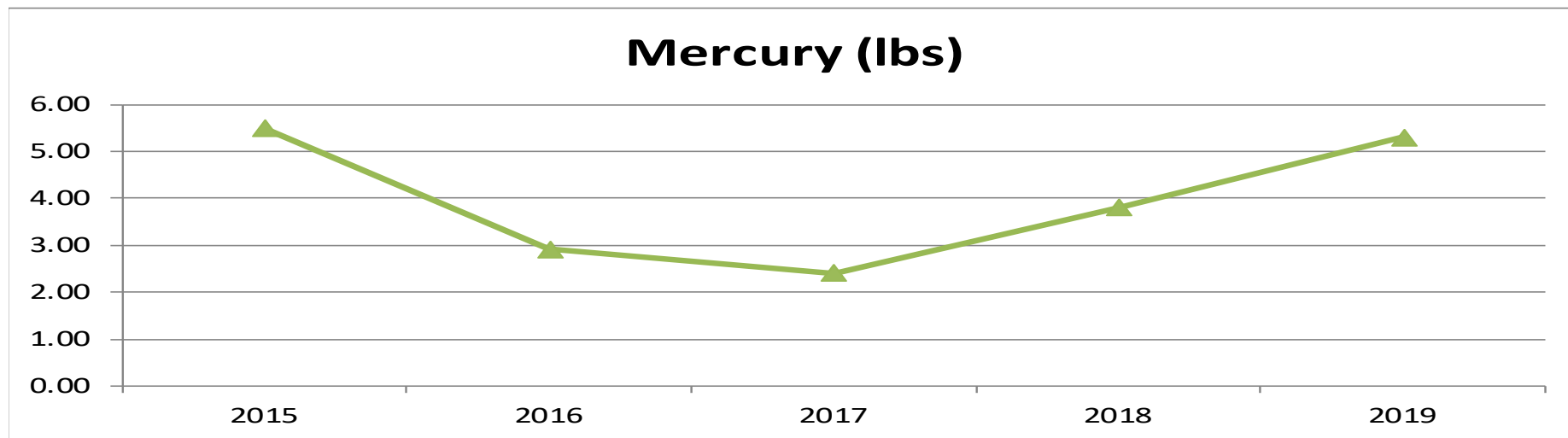
Yearly Emissions

CO₂ (tons)



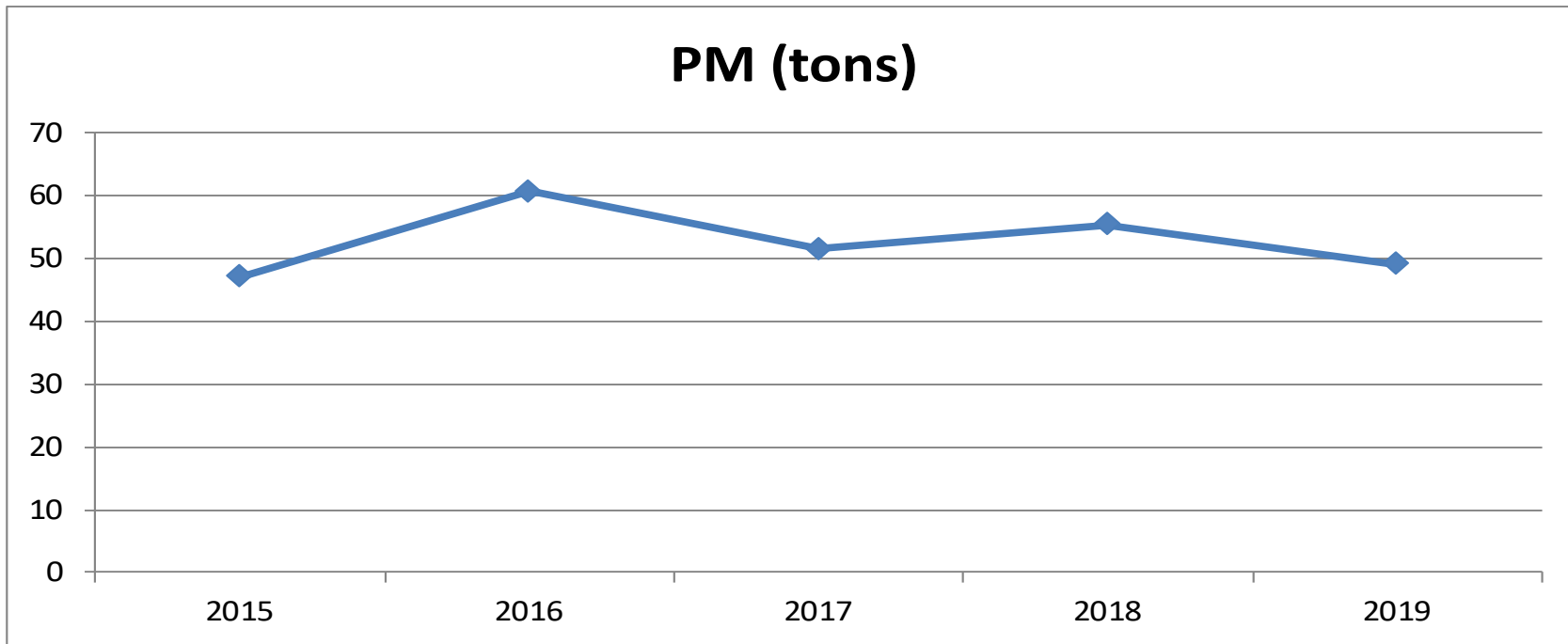
2018 and later data include DHR. The previous years did not include DHR.

Mercury (lbs)



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

Yearly Emissions



YTD - 2020 June

	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	0.5	115.8			90,542.0			1,523,517.0	127,895.0
DH2	87.6	188.3	0.96	10.9	117,715.6			1,364,039.0	132,114.0
DHCT3	0.0	0.4			1,466.2			24,673.0	1,653.0
JRKCC1	1.0	44.8			207,787.7			3,496,418.2	411,192.0
DHR	7.5	120.7			405,220.1			3,884,206.2	271,714.1
TOTAL	96.6	470.0	0.957	10.9	822,731.6			10,292,853.4	944,568.1

2020 - June

	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	0.0	12.0			9,785.8			164,656.0	13,606.0
DH2	34.7	65.0	0.01	0.1	42,164.1			480,570.0	46,117.0
DHCT3	0.0	0.1			208.6			3,509.0	235.0
JRKCC1	0.2	7.1			39,723.2			668,420.1	76,395.0
DHR	1.4	23.5			73,785.7			707,090.7	48,590.5
TOTAL	36.3	107.7	0.0	0.1	165,667.4			2,024,245.8	184,943.5

WATER/WASTEWATER

PRODUCTION

MAINTENANCE

Water/Wastewater June 2020 Dashboard

Production						
Murphree Water Treatment Plant						
		June 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.8	22.5	30	75%	
	Peak Daily Flow	29.4	26.0	54	48%	
Main Street Water Reclamation Facility						
		June 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	7.8	5.8	7.5	77%	
Kanapaha Water Reclamation Facility						
		June 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	13.1	11.4	14.9	77%	
Water Reclamation Facilities (Combined)						
		June 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	20.9	17.2	22.4	77%	
Maintenance						
Wastewater Collections						
		June 2020 (Miles)	FYTD	Monthly Goal (miles)		
	Miles of gravity mains cleaned	12.8	45.69	5.0		
	Miles of gravity mains TV inspected	9.84	62.68	5.0		
Water Distribution						
		June 2020	FYTD	Monthly Goal		
	Number of Water Services Replaced	65	691	75		
SSO Monthly Summary						
		June	YTD	GOAL (annual)		
	Sanitary Sewer Overflows	2	16	<22		

Major Projects and Other Updates

MWTP Electric System Upgrade - The MWTP is now operating on the new electrical system. The old equipment has been demolished and removed. The project is close to substantial completion.

MSWRF Phase I Project - planning and design are underway. Progressive Design Build contract is finalized.

Gravity Sewer Lining - Significant lining work is underway.

Eastside Force Main - Upgrading and adding capacity to a force main east of Waldo Road. Project to begin construction this month.

Water Distribution - repairing leaks more rapidly and maintaining leaks holding to under 25 on a monthly average.

Meter Replacement Program - completed changeout of over 5,260 meters meeting the annual goal.