

STATE OF THE UTILITY

Operational Update

August 2020

OPERATIONS SUMMARY

CORPORATE SAFETY

COMPLIANCE

ENVIRONMENTAL

REGULATORY

PERSONNEL

August 2020

Safety

Employees

	Current Month		
	First Aid	Recordable	DART
Administration	1	0	0
WWW Systems	0	2	0
Energy Supply	0	1	0
Energy Delivery - Electric/Gas	0	0	0
GRUCom	0	0	0
Totals		3	

	Year to Date		
	First Aid	Recordable	DART
	2	0	0
	3	7	2
	2	3	1
	1	3	3
	0	0	0
Totals		13	

Vehicles

	Current Month		
	Miles Driven*	Recordable	Preventable
Administration	9,926	0	0
WWW Systems	71,432	3	2
Energy Supply	1,728	0	0
Energy Delivery - Electric/Gas	100,273	1	0
GRUCom	7,045	0	0
Totals	190,404	4	2

	Year to Date		
	Miles Driven*	Recordable	Preventable
	114,106	0	0
	747,087	10	7
	24,246	0	0
	1,043,617	9	4
	79,822	0	0
Totals	2,008,878	19	11

*Mileage data is for July 2020. August mileage data will be included in September report.

Mileage YTD through July 2020

Environmental

	Current Month		Calendar Year to Date	
Notices of Violation		0		0
Emissions				
DH1, DH2, DHCT3, JRKCC1				
CO ₂ (tons)		115,503		643,041
NO _x (tons)		115		579
SO ₂ (tons)		51		186
DH Unit 2 (only)				
PM _{FILT} (tons)		6		24
Hg (lbs)		0.40		1.70
DHR				
CO ₂ (tons)		76,114		551,419
NO _x (tons)		24		168
SO ₂ (tons)		2		10

Regulatory

NERC		
Notice of Violations	0	1
Self Reports/Potential Violations	1	7

Personnel

Row Labels	AUTHORIZED_FTE	FILLED_FTE	VACANCY	Last Month (July)
Administration	16.00	14.00	2.00	3.00
Chief Operating Officer	20.00	18.00	2.00	1.00
Customer Support Services	118.25	109.25	9.00	10.00
Energy Delivery	264.00	251.00	13.00	14.00
Energy Supply	182.00	165.00	17.00	16.00
Energy Supply - District Energy	11.00	11.00	0.00	0.00
Finance	42.00	29.00	13.00	13.00
GRUCom	38.00	29.00	9.00	9.00
Information Technology	71.00	64.00	7.00	7.00
Water Wastewater	168.00	159.00	9.00	5.00
Grand Total	930.25	849.25	81.00	78.00

Filled FTE's do not include temporary employees or interns

Filled FTE's do include staffed overfills

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
9/29/2020	[Audit finding from Regional auditor]. System Operating Limit exceeds Facility Rating for Line 14.
9/29/2020	Failure to verify at least once each calendar quarter that individuals with active electronic access or unescorted physical access have authorization records

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
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
8/18/2020	Substation control house door left unsecure for 9 hours

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.

JULY

- None reported

AUGUST

- 8/3/2020 – The employee's truck was struck from behind while stopped in traffic. His torso was bruised from the seatbelt and strained his right foot

- 8/17/2020 – Employee was standing near a bottom ash valves having CRO cycle an air operated valve. When valve cycled solenoid vent kicked up ash that went behind safety glasses into operator’s eye.
- 8/26/2020 – Employee was moving a manhole lid and it fell onto his right big toe, fracturing it

End of FY 2020

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.

JULY

- 7/28/2020 – Employee was stopped at red light and was rear ended by another car. Damage to both vehicles.
- 7/30/2020 – When approaching the north EOC gate driving a dump truck, the gate the gate did not open. He backed up to get a better angle on the sensor, but another GRU employee in a pick-up truck had pulled up behind him. When the two trucks made contact, there was minor damage to the grill and front edge of the hood. (P)

AUGUST

- 8/3/2020 – Employee was stopped in traffic and was rear ended by another truck, pushing our truck into the car in front. Damage to all three vehicles, and injury to our employee.
- 8/11/2020 – Employee was stopped for a pedestrian crossing the road when he was rear ended by a private driver.
- 8/24/2020 – While leaving the site, a contractor arrived to deliver materials. The employee was backing up to advise the security guard to allow the delivery. He was monitoring his ride side next to the other truck and scraped against the bollard on the truck's left side. (P)
- 8/29/2020 – While making a right turn on red onto Waldo Road, a GRU service truck collided with a car traveling through the intersection. (P)

End of FY 2020

CUSTOMER SUPPORT SERVICES

Customer Operations

New Services

Revenue Assurance

Customer Operations Metrics Summary August 2020

Active Accounts	Aug-20	YTD Gain/Loss	FY19
<i>Residential Contract Accounts</i>			
Total	93,723	1,900	91,823
Electric	86,615	1,551	85,064
Gas	34,143	338	33,805
Water	64,217	637	63,580
Wastewater	60,039	553	59,486
Telecomm	91	(26)	117

Active Accounts	Aug-20	YTD Gain/Loss	FY19
<i>Nonresidential Contract Accounts</i>			
Total	13,616	20	13,596
Electric	11,027	2	11,025
Gas	1,662	5	1,657
Water	5,904	12	5,892
Wastewater	4,671	(14)	4,685
Telecomm	402	10	392

New Installations	Aug-20	FY20 To Date	FY19
Electric	166	2126	1393
Gas	56	516	512
Water	70	683	654
Wastewater	63	604	614
Telecomm	6	128	141

Residential Disconnects	Aug-20	FY20 To Date	FY19
Volume	70	7,020	14,076
Average Balance	\$252.35	\$160.65	\$246.88

Call Center Volume	Aug-20	FY20 To Date	FY19
Residential ASA	0:12:13	0:03:15	0:06:26
Business ASA	0:06:47	0:02:29	0:02:49
CSR Calls	19,619	169,270	151,278
CSR Callbacks	4,095	10,035	19,343
IVR Self Service	19,424	180,647	227,577
Total	43,138	359,952	398,198
IVR/Total	45%	50%	57%

Revenue Assurance	Aug-20	FY20 To Date	FY19
Referred to Collections	\$64,993.09	\$1,288,302.85	\$1,948,001.43
Recovered	\$77,200.46	\$734,227.54	\$796,259.96

Service Orders	Aug-20	FY20 To Date	FY19
Move Ins	18,740	99,282	109,537
Move Outs	18,044	97,959	109,795

Bills Generated	Aug-20	FY20 To Date	FY19
Paper Bills	97,368	1,190,703	1,278,441
eBills	19,014	216,961	212,879
Total	116,382	1,407,664	1,491,320
eBill/Total	16%	15%	14%

Average Res Bill Amounts	Aug-20	FY20 To Date	FY19
Electric (kWh)	1,068	808	836
Electric (\$)	\$154.34	\$121.56	\$122.20
Gas (Therms)	9	19	19
Gas (\$)	\$21.88	\$33.60	\$32.72
Water (kGals)	5	5	6
Water (\$)	\$31.43	\$31.59	\$28.61
Wastewater (kGals)	5	5	7
Wastewater(\$)	\$36.10	\$37.74	\$34.25

Payment Arrangements	Aug-20	FY20 To Date	FY19
Total	982	5,248	9,797

ENERGY DELIVERY

System Consumption

System Reliability

Major Projects – Electric & Gas

ENERGY DELIVERY - UAB REPORT - AUGUST 2020

Durations Reliability Report Between 08/01/2020 and 08/31/2020

Excludes Extreme Weather and Generation/Transmission Disturbances

CUSTOMER DATA	RELIABILITY INDICES		MONTHLY AVG GOAL
Monthly Average Customers Served(C)	99,693	Average Service Availability Index (ASAI)	99.9856%
Total Hours of Customer Demand	71,778,960	System Average Interruption Duration Index (SAIDI)	6.22 4.5
Total Number of Outages	92	Customer Average Interruption Duration Index (CAIDI)	53.46 55
Total Number of Customers Affected (CI)	11,595	0.12	0.12 0.08
Total Customer Minutes Interrupted (CMI)	619,854		
Total Customer "Out Minutes"	12,432	Average Length of a Service Interruption (L-Bar)	135.13 Mins

Cause of Outages				
Cause	Overhead	Underground	Both	Total
0. Undetermined	9	0	0	9
1. Weather	9	0	1	11
2. Vegetation	28	1	2	31
3. Animals	2	1	0	3
4. Foreign Interference	0	0	0	0
5. Human Cause	2	2	0	4
6. Equipment Failure	10	22	2	34
7. All Remaining Outages	0	0	0	0
Total	60	26	5	92

Durations Reliability Report Between 01/01/2020 and 08/31/2020*

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

CUSTOMER DATA	RELIABILITY INDICES		GRU YTD GOALS
Monthly Average Customers Served(C)	99,693	Average Service Availability Index (ASAI)	99.9885%
Total Hours of Customer Demand	581,409,576	System Average Interruption Duration Index (SAIDI)	40.33 36
Total Number of Outages	499	Customer Average Interruption Duration Index (CAIDI)	62.51 55
Total Number of Customers Affected (CI)	64,320	System average Interruption Frequency Index (SAIFI)	0.65 0.64
Total Customer Minutes Interrupted (CMI)	4,020,899		
Total Customer "Out Minutes"	74,243	Average Length of a Service Interruption (L-Bar)	148.78 Mins

ENERGY DELIVERY - UAB REPORT - AUGUST 2020

ENERGY DELIVERY - UAB REPORT - AUGUST 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	36	2	3	41
1. Weather	25	0	2	27
2. Vegetation	180	3	6	189
3. Animals	24	1	2	27
4. Foreign Interference	0	0	0	0
5. Human Cause	26	14	2	42
6. Equipment Failure	63	87	20	170
7. All Remaining Outages	0	0	0	0
Total	354	107	35	496
* REPORTED AS CALENDAR YEAR				

ENERGY DELIVERY - UAB REPORT - AUGUST 2020

Durations Reliability Report Between 08/01/2020 and 08/31/2020

	2020		2019	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Feed-In-Tarrif - Residential	130 KWH	100	68 KWH	100
Feed-In-Tarrif - General Service	2,740 KWH	157	2,346 KWH	156
Electric - GS - Demand - Regular	55,987,657 KWH	1,186	58,475,215 KWH	1,202
Electric - General Service Demand PV	1,310,357 KWH	22	940,988 KWH	19
Electric - GS - Kanapaha w Curtail Cr	1,164,000 KWH	1	1,098,000 KWH	1
Electric - GS - Demand - Large Power	8,301,000 KWH	6	8,701,800 KWH	6
Electric - GS - Murphree Curtail Credit	1,488,000 KWH	1	1,468,800 KWH	1
Electric - GS Large Demand PV	5,080,800 KWH	2	4,843,200 KWH	2
Electric - GS - Non Demand	17,839,632 KWH	9,885	18,544,303 KWH	9,843
Electric - General Service PV	186,929 KWH	72	188,240 KWH	64
Electric - Lighting - Rental	928,863 KWH	4,131 <i>n</i>	977,364 KWH	4,535 <i>n</i>
Electric - Lighting - Street - City	584,911 KWH	12 <i>n</i>	711,547 KWH	12 <i>n</i>
Electric - Lighting - Street - County	131,940 KWH	2 <i>n</i>	136,537 KWH	2 <i>n</i>
Electric - Lighting - Traffic	4,542 KWH	2	4,542 KWH	2 <i>n</i>
Electric - Residential - Non TOU	94,573,701 KWH	91,705	86,403,198 KWH	90,197
Electric - Residential PV	465,340 KWH	476	346,704 KWH	379
Total Retail Electric	188,059,542 KWH	103,615	182,842,852 KWH	101,970
<small>(n =not included in total customer count)</small>				
City of Alachua	14,022,567 KWH KWH	28,212 KW	13,885,000 KWH	27,464 KW
Total (Native) Electric	202,082,109 KWH		196,727,852 KWH	

Gas System Consumption

	2020		2019	
	CONSUMPTION	CUSTOMERS	CONSUMPTION	CUSTOMERS
Gas - GS - Regular Service (Firm)	559,485 THM	1,358	644,205 THM	1,365
Gas - GS - Regular Service (Small)	4,381 THM	323	5,218 THM	306
Gas - GS - Interrruptible - Regular Serv	22,449 THM	1	32,000 THM	2
Gas - GS - Interrruptible - Large Volume	375,218 THM	7	351,559 THM	7
Gas - Residential - Regular Service	313,460 THM	34,893	302,799 THM	34,347
Total Retail Gas	1,274,993 THM	36,582	1,335,781 THM	36,027
Gas - GS - UF Cogeneration Plant	2,847,745 THM	1	3,003,027 THM	1
Gas - Residential - LP - Basic Rate	2,783 GAL	206	2,076 GAL	200

*Obtained from Monthly Billing Summary prepared by Todd Kamhoot.

ENERGY DELIVERY - UAB REPORT - AUGUST 2020

Durations Reliability Report Between 08/01/2020 and 08/31/2020

Major Electric Design Projects

West

- > Celebration Pointe (Commercial & Residential Development)
- > Tower Road Mixed Use Development (Market's West)/Grand Oaks (Phase 2) - 2 projects in the same area
- > Reliability Improvements - TACTICS - Recloser installations in multiple circuits (1037, 1034, 931)
- > 8th Ave OH to UG Conversion (Ph. 3) / SW 20th Ave OH to UG conversion, 2 different projects in area
- > FDOT Light Project / Archer Road / FDOT Road Project

East

- > Murphree Water Plant (OH to UG Conversion and rebuilt)
- > Hub on Campus I (8 story mixed-use development)
- > One College Park (apartments)
- > Harper's Pointe Apartment Complex
- > UF Data Center – 6.5 MW Total Load

Major Gas Design Projects:

- > Main Installation – Main Installation - Town of Tioga Ph 19 - 1570'
- > Main Installation – Oakmont Subdivision – ongoing – 10600'
- > Main Installation – NW 12th St. – Bare steel - 1960'
- > Main Installation – Laureate Village – SW 143rd St. – 5900'

ENERGY SUPPLY

SYSTEM STATISTICS

ENERGY DISTRIBUTION

FUEL

August 2020

Energy Supply - CAPACITY

Energy Supply - Performance Parameter

Source

	Unit Capability output - MWn				
		Month	YTD	Budget YTD	Delta Budget
DH-2	228	45,900	331,272	491,909	(160,637)
DH-1	75	27,368	160,787	21,621	139,166
Kelly CC	108	78,402	666,748	836,902	(170,154)
CT's	106	7	2,132	551	1,581
Grid	2 x 224	7,787	71,087	130,410	(59,323)
DHR	102.5	43,430	392,679	285,096	107,583

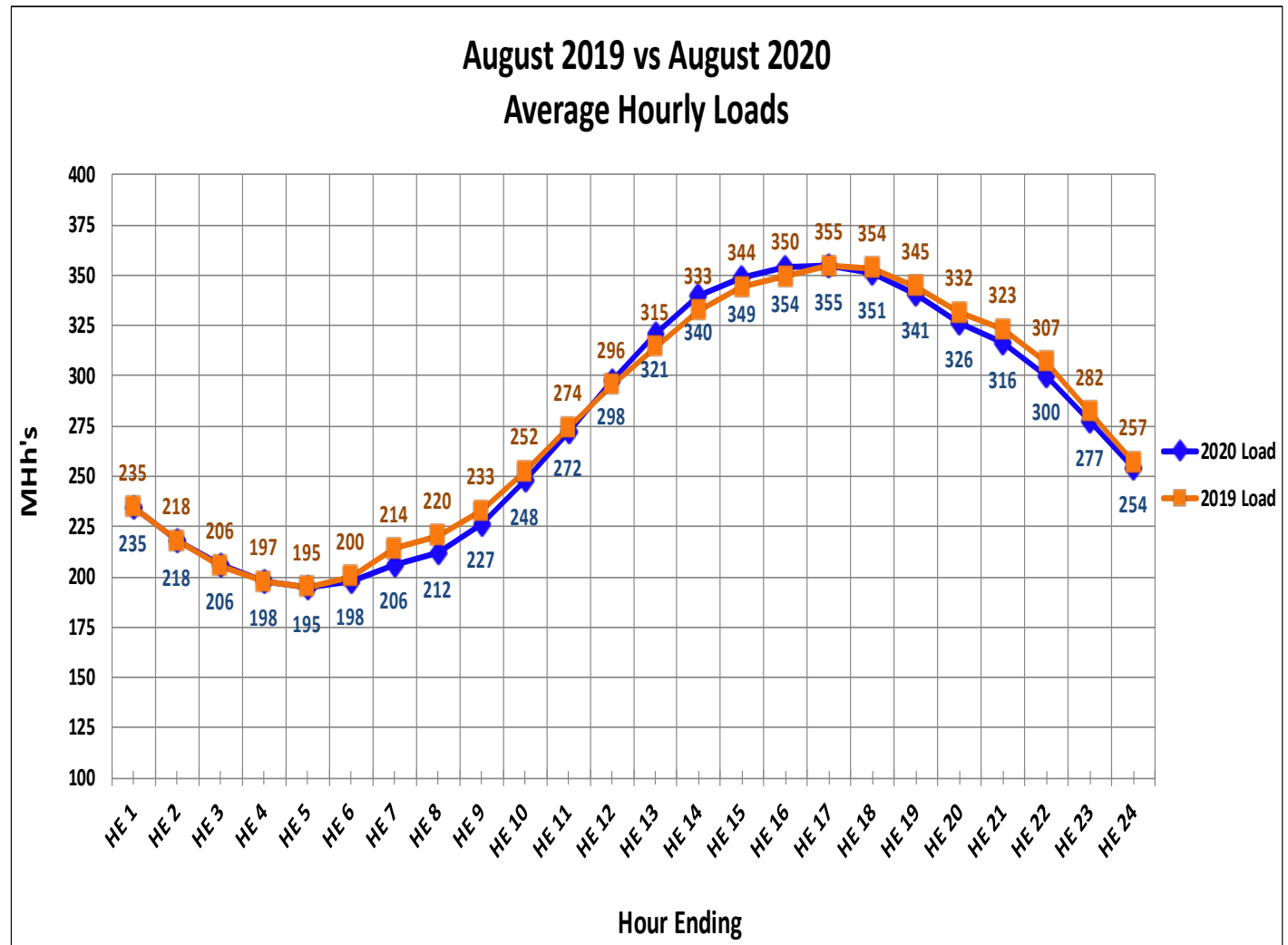
Fuels Consumed

	Month	FYTD	Budget YTD	Delta Budget
Coal - Tons	14,051	106,419	270,396	(163,977)
Gas - MCF	1,267,406	12,039,118	7,570,660	4,468,458
Fuel oil - Gals	-	1,327	-	1,327
Biomass - Tons	59,497	567,075	358,506	208,569

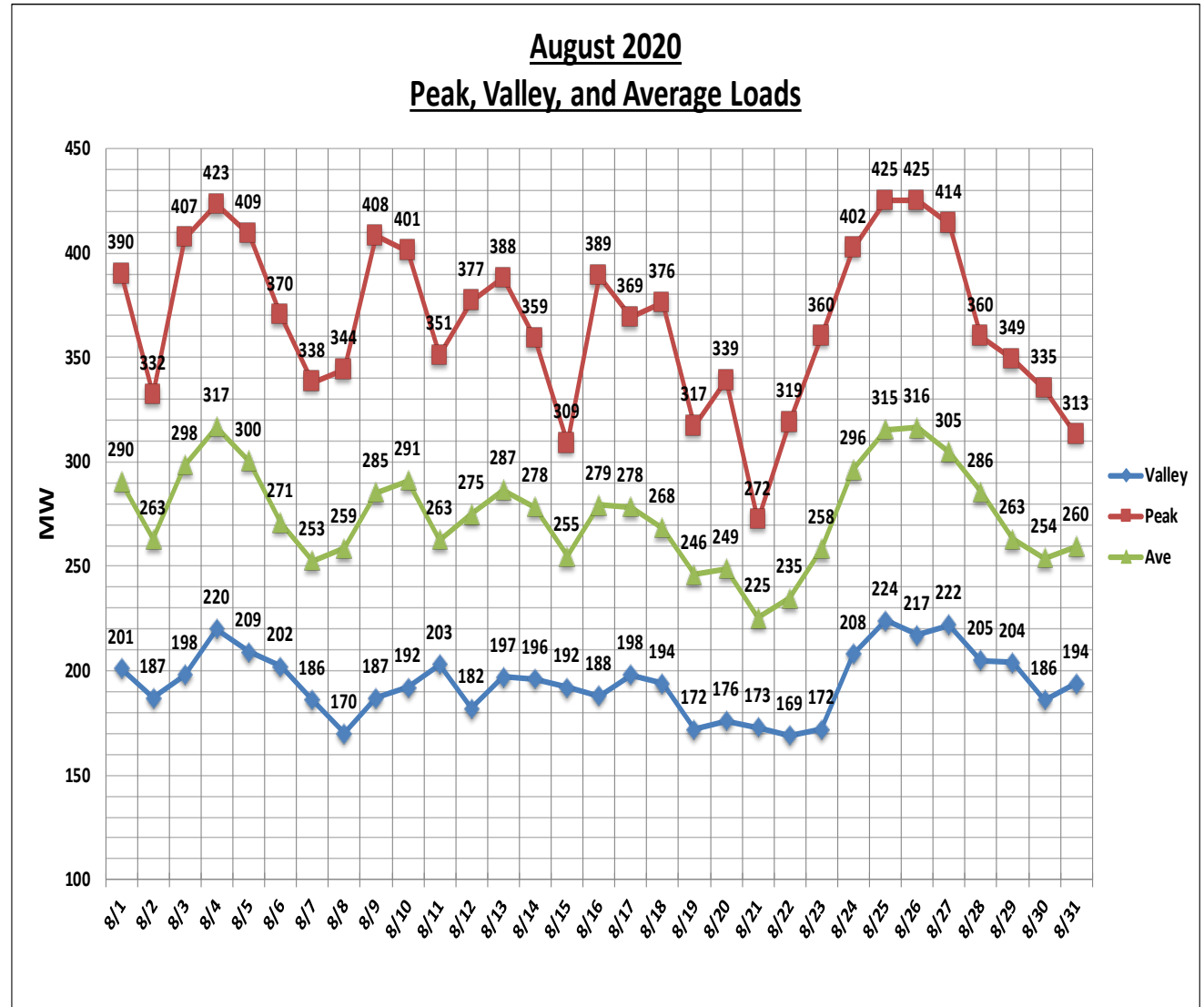
Availability/Capacity

	Availability			Capacity		
	Month	FY 2020 YTD	FY 2019 YTD	Month	FY 2020 YTD	FY 2019 YTD
DH-2	100.00%	77.89%	82.73%	29.76%	19.95%	31.40%
DH-1	100.00%	91.35%	99.51%	50.51%	31.95%	25.55%
Kelly CC	100.00%	93.68%	79.48%	96.28%	85.15%	51.87%
DH CT-1	100.00%	97.19%	99.50%	0.10%	0.24%	0.18%
DH CT-2	100.00%	96.53%	95.50%	0.00%	0.23%	0.12%
DH CT-3	100.00%	99.59%	84.50%	0.00%	0.26%	1.44%
DHR	100.00%	90.96%	90.17%	60.43%	52.98%	71.92%

August Average Hourly Loads		
Hour Ending	2019 Load	2020 Load
HE 1	235	235
HE 2	218	218
HE 3	206	206
HE 4	197	198
HE 5	195	195
HE 6	200	198
HE 7	214	206
HE 8	220	212
HE 9	233	227
HE 10	252	248
HE 11	274	272
HE 12	296	298
HE 13	315	321
HE 14	344	340
HE 15	350	349
HE 16	354	354
HE 17	355	355
HE 18	354	351
HE 19	345	341
HE 20	332	326
HE 21	323	316
HE 22	307	300
HE 23	282	277
HE 24	257	254

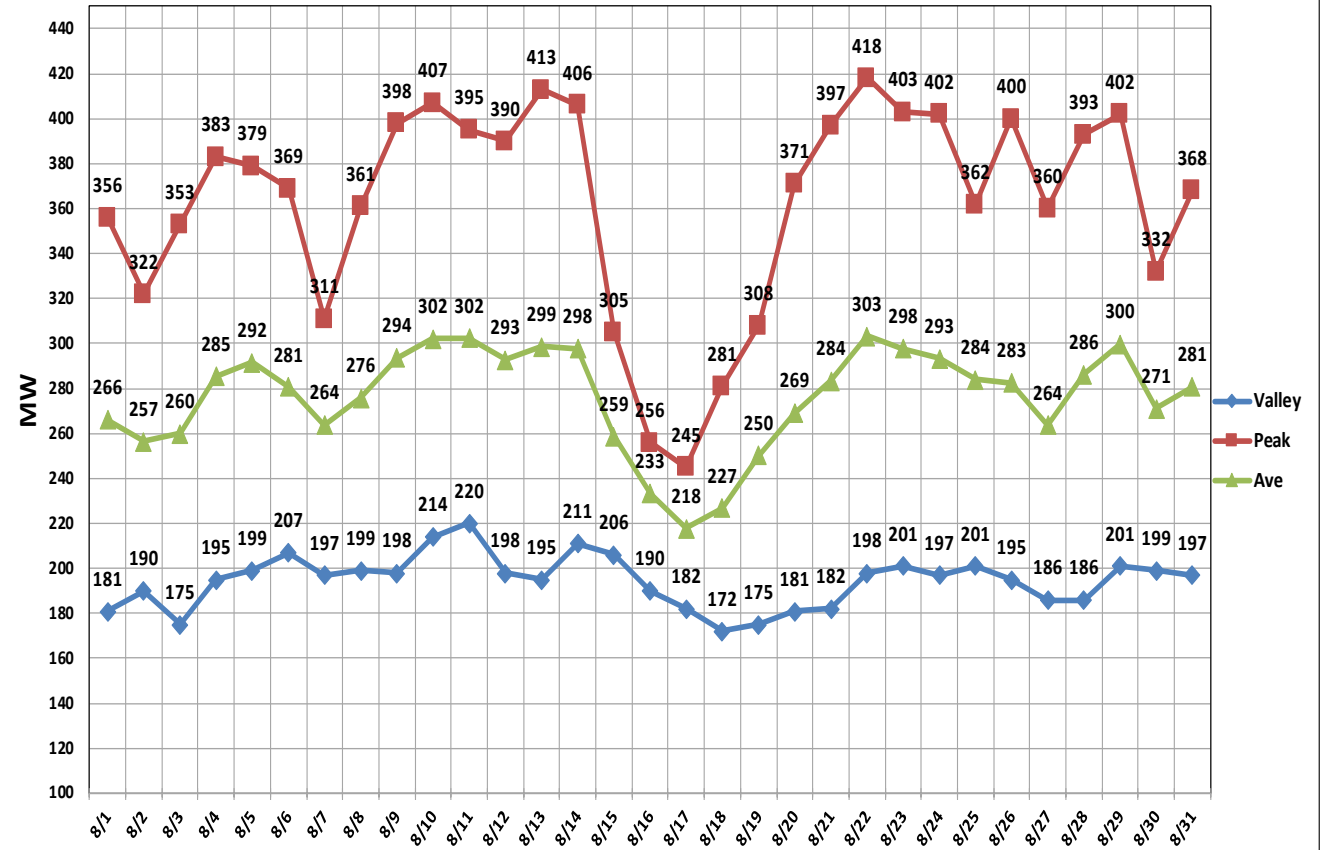


Date	Valley	Peak	Ave
8/1/2020	201	390	290
8/2/2020	187	332	263
8/3/2020	198	407	298
8/4/2020	220	423	317
8/5/2020	209	409	300
8/6/2020	202	370	271
8/7/2020	186	338	253
8/8/2020	170	344	259
8/9/2020	187	408	285
8/10/2020	192	401	291
8/11/2020	203	351	263
8/12/2020	182	377	275
8/13/2020	197	388	287
8/14/2020	196	359	278
8/15/2020	192	309	255
8/16/2020	188	389	279
8/17/2020	198	369	278
8/18/2020	194	376	268
8/19/2020	172	317	246
8/20/2020	176	339	249
8/21/2020	173	272	225
8/22/2020	169	319	235
8/23/2020	172	360	258
8/24/2020	208	402	296
8/25/2020	224	425	315
8/26/2020	217	425	316
8/27/2020	222	414	305
8/28/2020	205	360	286
8/29/2020	204	349	263
8/30/2020	186	335	254
8/31/2020	194	313	260



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	361	276
8/9/2019	198	398	294
8/10/2019	214	407	302
8/11/2019	220	395	302
8/12/2019	198	390	293
8/13/2019	195	413	299
8/14/2019	211	406	298
8/15/2019	206	305	259
8/16/2019	190	256	233
8/17/2019	182	245	218
8/18/2019	172	281	227
8/19/2019	175	308	250
8/20/2019	181	371	269
8/21/2019	182	397	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

August 2019
Peak, Valley, and Average Loads



Date: As of September 7, 2020: Major Energy Supply Projects/Milestones Updates:

1. Deerhaven Generating Station (DH):
 - a. Deerhaven Unit #2 (DH2) # 1 High Pressure Feedwater Heater is out of service due to leak. We are coordinating a borescope of heater to determine extent of repairs required. With heater isolated there are no restrictions on the plant, but this does have minor impact on efficiency.
 - b. DH2: We are still coordinating the final report on the Dual Fuel Project Due Diligence with both the Boiler Original Equipment Manufacturer (Babcock & Wilcox), and engineering firm Sargent & Lundy.
 - c. Deerhaven Unit #1 (DH1) we are currently reviewing the quote for the turbine Original Equipment Manufacturer (Siemens) to conduct Life Time Assessment. This analysis is a for possible life extension of this turbine beyond the planned retirement date on 12/31/2022.
2. Kelly Generating Station (JRK):
 - a. Unit #8 East Condensate Pump has been reinstalled and still having indication of vibration/ The current design of the pump elevation with respect to hotwell level in condenser is a concern, as well as indication of the hard mounting of the piping fostering this vibration. Reliability Engineer is leading this effort to resolve issues with all 3 condensate pumps.
 - b. Unit #8 Steam Turbine and Generator replacement. Even with some delays due to COVID19 impacts 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. Other:
 - a. Energy Supply was questioned by Gainesville Sun with regard to a large methane cloud generated in North Gainesville in the May 1st or 2nd time frame earlier this year. The Energy Supply Officer answered inquires and informed the reporter that we have no process in generation where we generate any methane. In fact as natural gas is made up of 70% to 90% methane we actually burn methane in several of our generation plants. Also Energy Supply had no events related to any natural gas leaks that could have contributed to this reported cloud. Three days after this interview the Florida Environmental Protection reported the apparent source of this cloud was from a venting during and intentional emergency shutdown of a natural gas compression facility on May 2nd , and source was not associated with GRU in any way.

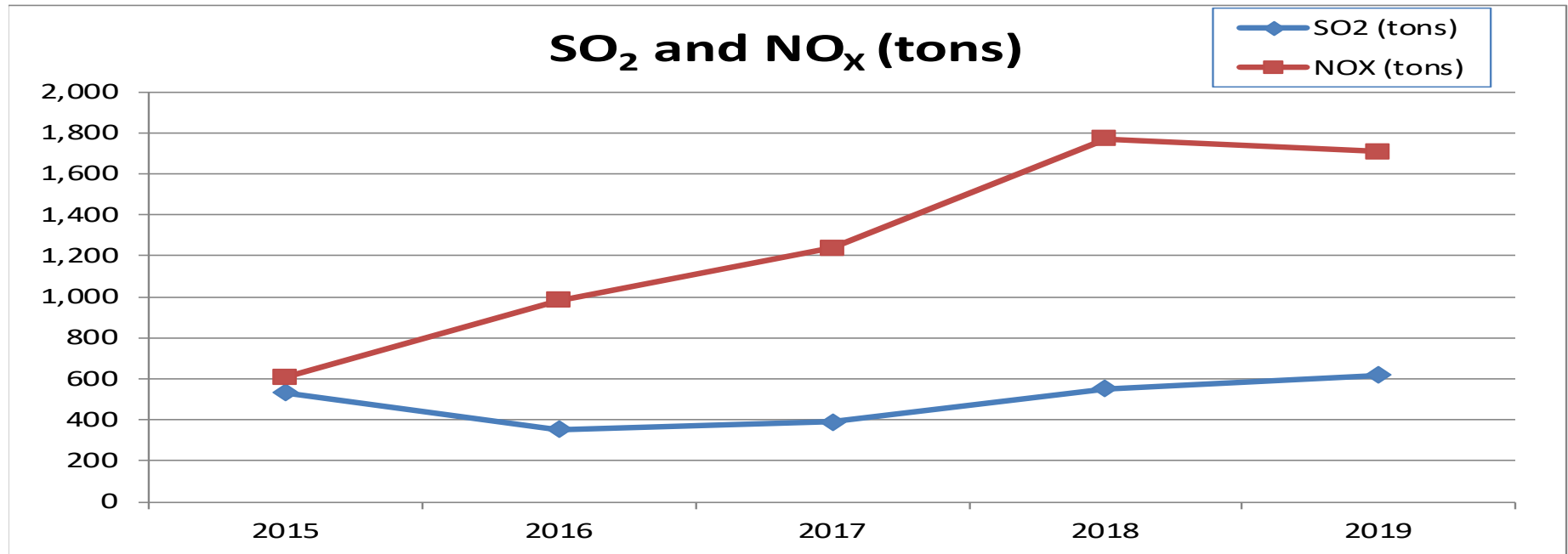
ENVIRONMENTAL PERMITTING

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 (August)	196	746	1.66	24	1,194,460

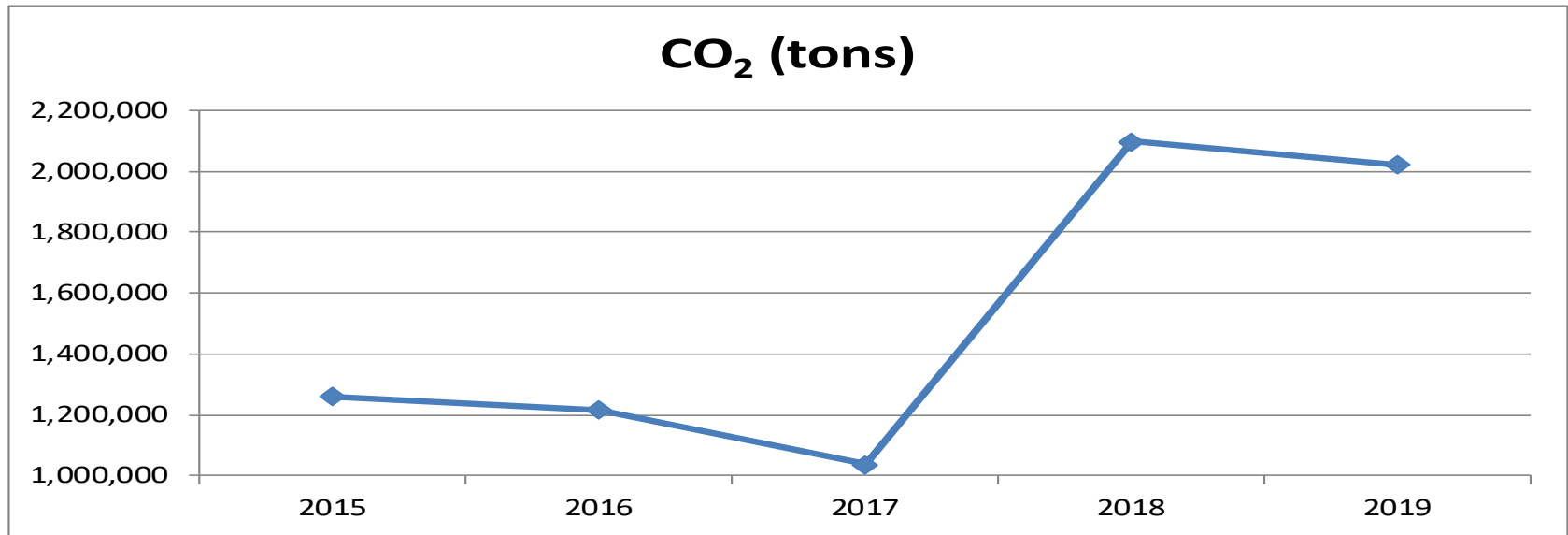
2017, 2018, 2019 and 2020 Mercury and Particulate values are for Unit 2 only.



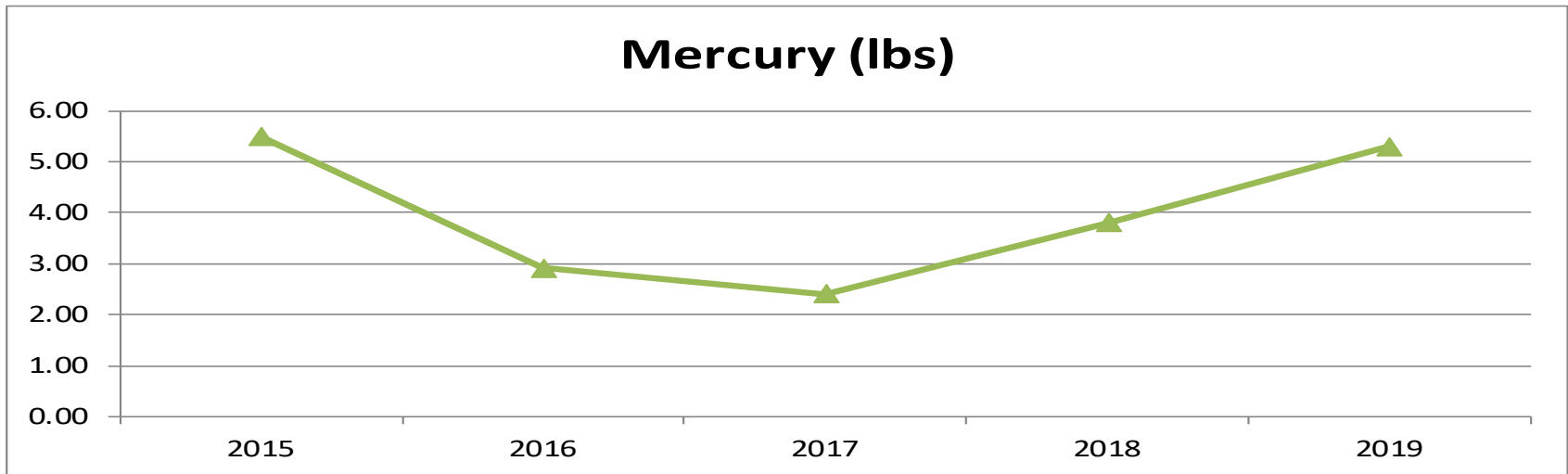
SO₂ was lower in 2015, 2016, and 2017 due to higher removal rate settings to assure compliance with the MATS Rule.

NO_x was higher in 2016 since it was more cost effective to use allowances than increase SCR removal 2018 and later data include DHR. The previous years did not include DHR.

Yearly Emissions



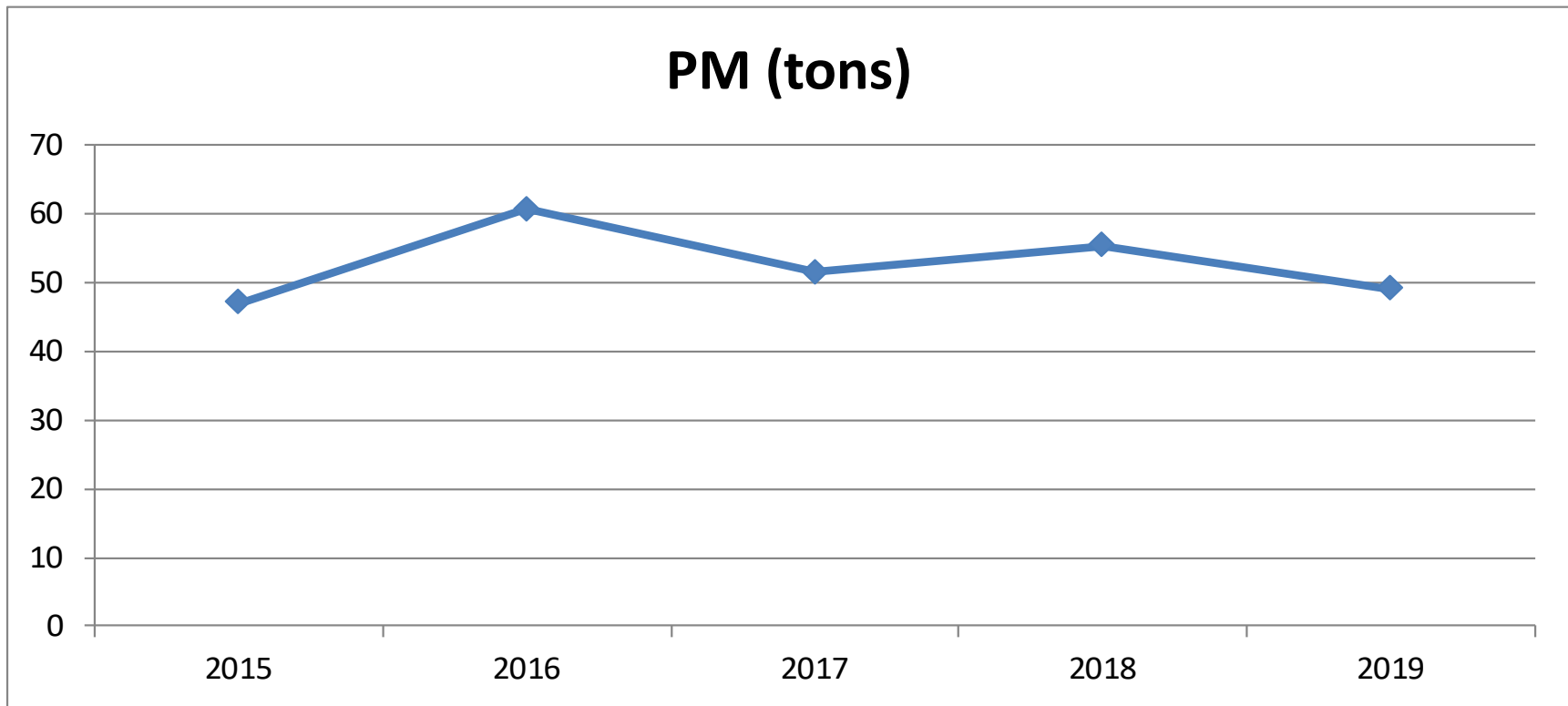
2018 and later data include DHR. The previous years did not include DHR.



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

Yearly Emissions

PM (tons)



YTD - 2020 August

	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	0.7	166.2			133,149.4			2,240,531.0	191,179.0
DH2	183.6	353.8	1.66	23.5	225,248.3			2,608,607.0	242,237.0
DHCT3	0.0	0.4			1,530.0			25,742.0	1,807.0
JRKCC1	1.4	58.2			283,113.7			4,764,291.8	568,945.0
DHR	10.3	167.6			551,418.5			5,285,881.4	369,144.9
TOTAL	196.0	746.2	1.664	23.5	1,194,459.9			14,925,053.2	1,373,312.9

2020 - August

	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	25.3			21,868.7			367,999.0	29,878.0
DH2	50.4	82.6	0.42	5.8	52,445.7			608,388.0	55,287.0
DHCT3	0.0	0.0			3.3			55.0	0.0
JRKCC1	0.2	7.4			41,184.8			693,009.9	78,936.0
DHR	1.5	24.4			76,113.6			729,789.2	51,273.9
TOTAL	52.2	139.7	0.4	5.8	191,616.1			2,399,241.1	215,374.9

WATER/WASTEWATER

PRODUCTION

MAINTENANCE

Water/Wastewater August 2020 Dashboard

Production						
Murphree Water Treatment Plant						
		August 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	22.5	16.5	30	55%	
	Peak Daily Flow	24.8	19.0	54	35%	
Main Street Water Reclamation Facility						
		August 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	5.84	5.84	7.5	78%	
Kanapaha Water Reclamation Facility						
		August 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	11.8	11.5	14.9	77%	
Water Reclamation Facilities (Combined)						
		August 2020	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity	Status
	Average Daily Flow	17.6	17.3	22.4	77%	
Maintenance						
Wastewater Collections						
		August 2020 (Miles)	FYTD	Monthly Goal (miles)		
	Miles of gravity mains cleaned	10.95	62.87	5.0		
	Miles of gravity mains TV inspected	7.73	78.11	5.0		
Water Distribution						
		August 2020	FYTD	Monthly Goal		
	Number of Water Services Replaced	84	848	75		
SSO Monthly Summary						
		August	YTD	GOAL (annual)		
	Sanitary Sewer Overflows	4	20	<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 substantial complete.

MSWRF Phase I Project - Planning phase of project has begun.

KWRF 42-inch Pipe Construction Update - installation continues - 2 "spools" of pipe in place and connected. Pressure testing with dye to identify any leaks soon.

Duck Pond Water Main Rehabilitation - Directional drilling and open trench water main construction underway. Estimated date of completion Nov 2020. Existing utilities along construction path make work challenging.

Gravity Sewer Lining - Significant lining work is underway.

Eastside Force Main - Construction has begun. Easement from State complete.

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

Meter Replacement Program - completed changeout of over 6,113 meters surpassing the annual goal.