



STATE OF THE UTILITY

Item 160373

Operational Updates

09/14/16

SAFETY

Employees

Current Month			Year to Date		
Near Miss	Recordable	Lost Time	Near Miss	Recordable	Lost Time
1	0	0	12	1	0
1	0	0	15	3	2
0	0	0	12	2	0
0	1	0	2	5	1
0	0	0	1	1	0

The lost time is a recordable

Vehicles

Current Month			Year to Date		
Miles Driven	Recordable	Preventable	Miles Driven	Recordable	Preventable
35,666	0	0	296,889	2	1
40,032	0	0	390,738	2	0
23,555	0	0	20,496	1	1
51,706	1	1	456,721	7	2
19,360	0	0	205,114	2	2

ENVIRONMENTAL & REGULATORY

Environmental

	Current Month	Calendar Year to Date
Notices of Violation	0	0
Emissions		
DH1, DH2, DHCT3, JRKCC1		
CO ₂ (tons)	144,204	943,324
NO _x (tons)	97	831
SO ₂ (tons)	48	313
DH Unit 2 (only)		
PM _{FILT} (tons)	3	24
Hg (lbs)	0.43	2.98

Regulatory

	Current Month	Year to Date
NERC		
Notice of Violations	0	0
Self Reports/Potential Violations	1	1

CUSTOMERS & PERSONNEL

Customers

		Month	Gain/Loss from 08-2015
Electric	Residential	89876	2123
	Non-Res	10865	187
Gas	Residential	33684	661
	Non-Res	1639	17
Water	Residential	68665	1280
	Non-Res	6332	183
Wastewater	Residential	63713	1437
	Non-Res	4505	94

Personnel

	FTE	Incumbents	Vacant
Water & Wastewater	MAPS	27	25
	CWA	145.5	131
Energy Supply (includes District Energy)	MAPS	40	30
	CWA	128	117
Energy Delivery (Electric & Gas)	MAPS	53	43
	CWA	214	194.8
Total	607.50	540.80	66.70

GRU Distribution Reliability Report

08/01/2016 - 08/31/2016

Excludes Extreme Weather and Generation/Transmission Disturbances

<u>CUSTOMER DATA</u>	
Monthly Average Customers Served(C)	93000
Total Hours of Customer Demand	69,192,000
Total Number of Outages	92
Total Number of Customers Affected (CI)	11,384
Total Customer Minutes Interrupted (CMI)	14,954,092
Total Customer "Out Minutes"	48,851
Tot Customer Momentary Interruption Events (CME)	5,972

<u>RELIABILITY INDICIES</u>		
Average Service Availability Index (ASAI)	99.6398%	
System Average Interruption Duration Index (SAIDI)	160.80	Mins
Customer Average Interruption Duration Index (CAIDI)	1,313.61	Mins
System average Interruption Frequency Index (SAIFI)	0.12	
Momentary average Interruption Event (MAIFle)	0.06	
Average Length of a Service Interruption (L-Bar)	531	Mins

Guide for Power Distribution Reliability Indices

Outage Duration Times

Average Hours **8.8**
Maximum Hours **633.7**
Minimum Hours **0.1**

Circuit Breaker Operations

RCL Sequences **4**
Trips **12**
Lockouts **5**

Recloser Operations

RCL Sequences **3**
Trips **3**
Lockouts **3**

Cause of Outages

Cause	Overhead	Underground	Undetermined	Total
1. Weather	7	1	4	12
2. Vegetation	43	1	1	45
3. Animals	6	0	0	6
4. Foreign Interference	0	0	0	0
5. Human Cause	2	1	0	3
6. Undetermined	5	3	0	8
7. Equipment Failure	4	12	1	17
8. All Remaining Outages	1	0	0	1
Total	68	18	6	92
9. Planned Outage	3	14	0	17
10. Partial Outage	NA	NA	NA	NA

Gas System Sales

August 2016

Gas - GS - Regular Service (Firm)	548,089 THM
Gas - GS - Regular Service (Small)	9,003 THM
Gas - GS - Interruptible - Regular Service	61,000 THM
Gas - GS - Interruptible - Large Volume	318,915 THM
Gas - Residential - Regular Service	257,578 THM
Total Retail Gas	1,194,585 THM

Energy Delivery - Electric

o Major projects expected to start construction within 30 days:

- > Caggiano/Thornhill job walk through scheduled
- > SW 4th Ave OH to UG Conversion
- > SE 4th ST Roadway Project (relocation due to road work)
- > One College Park (apartments)
- > Continue CSR & UG Primary Bores for UG burnouts.

Energy Delivery – Gas

o Major projects expected to start construction within 30 days:

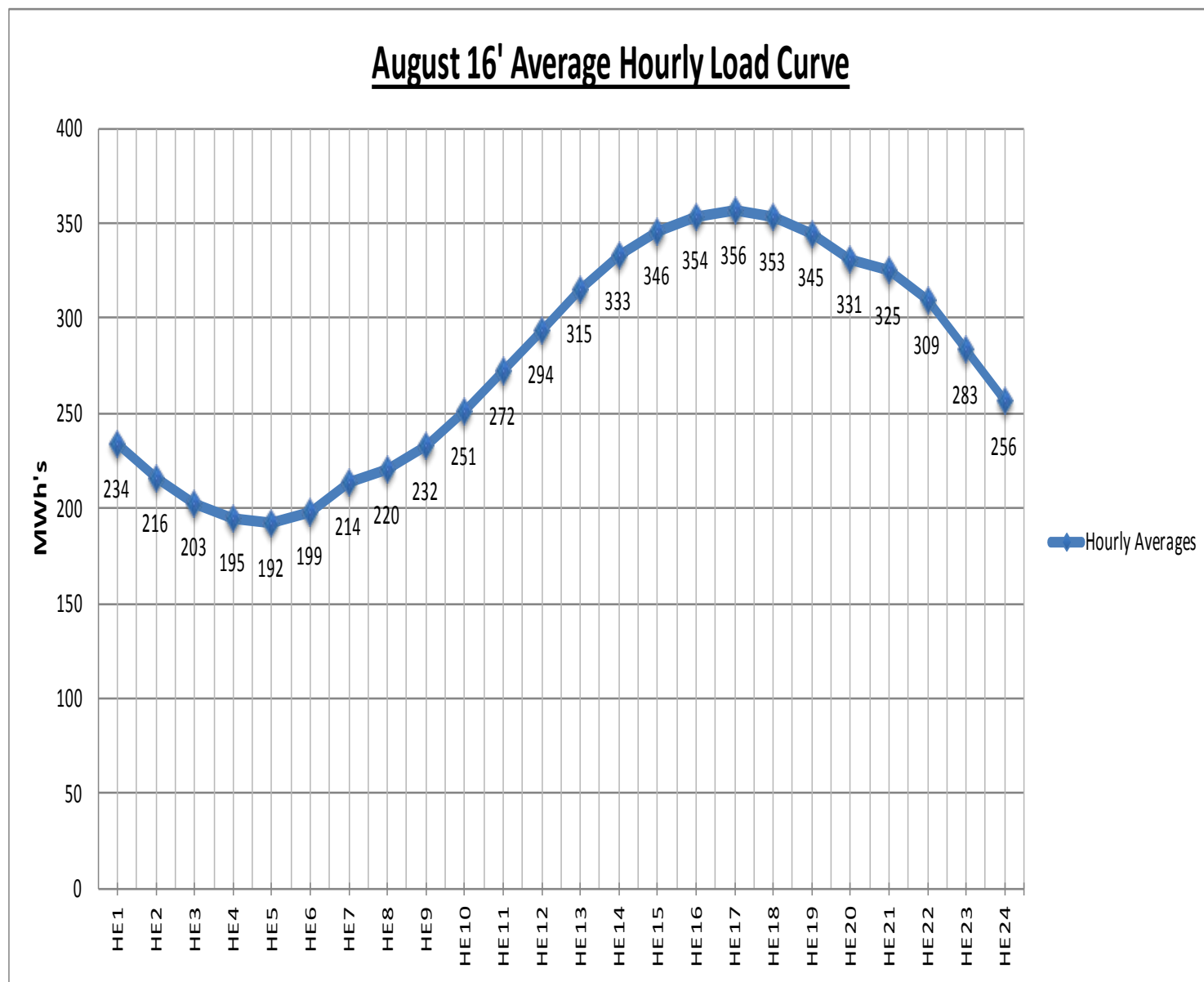
- > NW 3rd Ave and adjacent Streets. Replacements due to a large number of couplings, black plastic splitting issue and primarily inserted in CI making any leak difficult to locate.
- > Complete upgrade of 8" line on Archer Rd. (300# pressure test). Will require shutting in the West Station Valve installations and pressure test.
- > Grand Preserve Substation and Apt's. 7800' main installation.
- > SE Hawthorne Rd. Main installation – system support and ext. into E. Gainesville. 3365' Ready for Con. Will schedule it in when we get caught up on replacement work.
- > NE 5th St bare steel replacement – currently under design. 3100'

Energy Supply

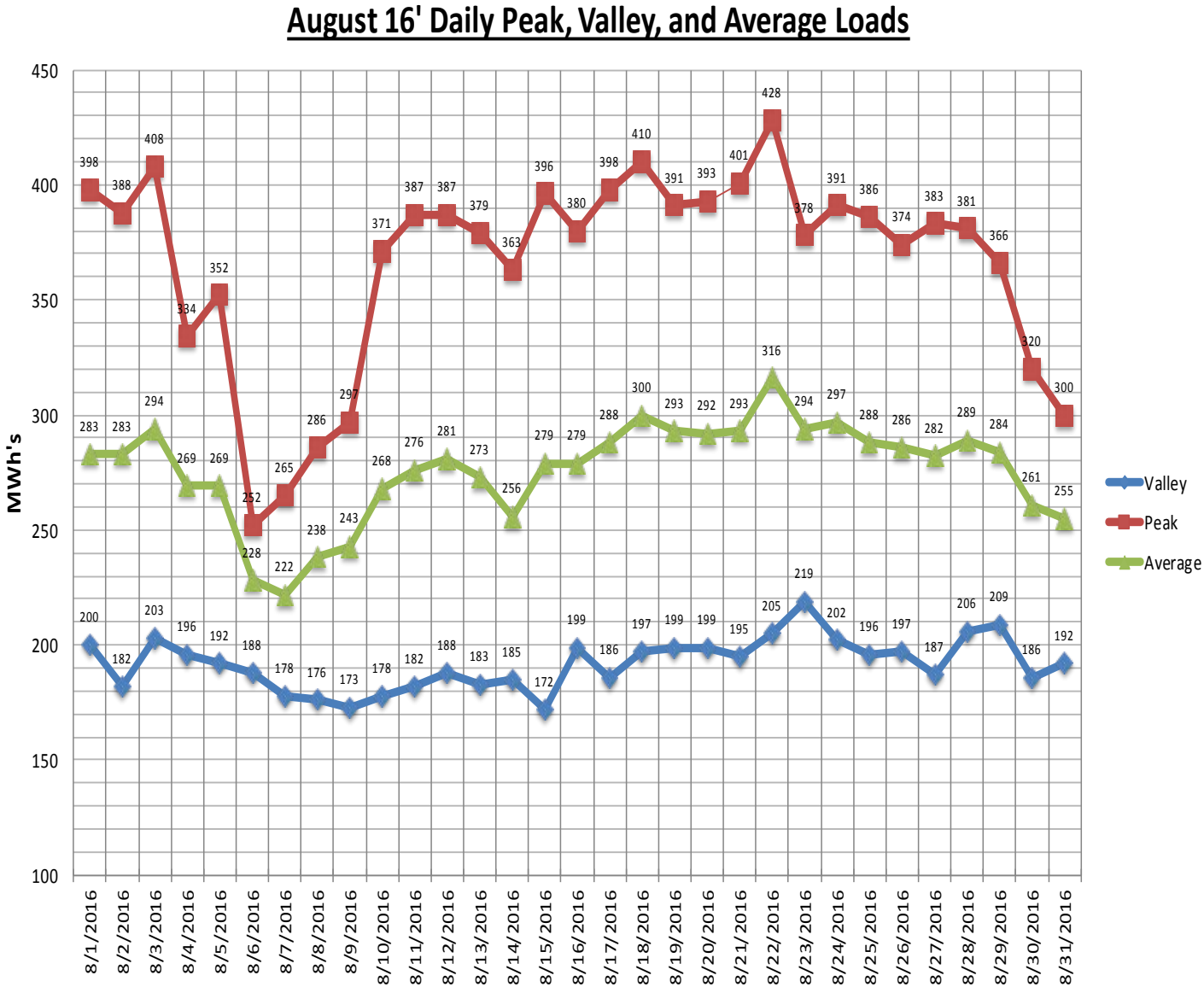
System Statistics					
		Unit Capability output - MWn			
	DH-2	228			
	DH-1	75			
	Kelly CC	108			
	CT's	106			
	Grid	2X224/Currently 178 derate			Transformer maintenance schedule for end of September
	GREC	102.5			

Energy Supply - MWHrs Delivered					
		Month	YTD	Budget YTD	Delta Budget
Source					
	DH-2	69,292	530,625	715,828	(185,203)
	DH-1	19,031	164,555	77,903	86,652
	Kelly CC	75,651	707,797	808,622	(100,825)
	CT's	-	4,175	3,875	300
	Grid	46,917	416,058	157,443	258,615
	GREC	-	11,891	37,012	(25,121)

Hour Ending	Ave. Load
HE1	234
HE2	216
HE3	203
HE4	195
HE5	192
HE6	199
HE7	214
HE8	220
HE9	232
HE10	251
HE11	272
HE12	294
HE13	315
HE14	333
HE15	346
HE16	354
HE17	356
HE18	353
HE19	345
HE20	331
HE21	325
HE22	309
HE23	283
HE24	256



Date	Valley	Peak	Ave
8/1/2016	200	398	283
8/2/2016	182	388	283
8/3/2016	203	408	294
8/4/2016	196	334	269
8/5/2016	192	352	269
8/6/2016	176	252	228
8/7/2016	173	297	243
8/8/2016	178	371	268
8/9/2016	182	387	276
8/10/2016	188	387	281
8/11/2016	183	379	273
8/12/2016	185	363	256
8/13/2016	172	396	279
8/14/2016	199	380	279
8/15/2016	186	398	288
8/16/2016	197	410	300
8/17/2016	199	391	293
8/18/2016	199	393	292
8/19/2016	199	401	293
8/20/2016	205	428	316
8/21/2016	219	378	294
8/22/2016	202	391	297
8/23/2016	196	386	288
8/24/2016	197	374	286
8/25/2016	187	383	282
8/26/2016	206	381	289
8/27/2016	209	366	284
8/28/2016	186	320	261
8/29/2016	192	300	255
8/30/2016	186		
8/31/2016	192		



Fuel Consumed

	Month	YTD	Budget YTD	Delta Budget
Coal - Tons	26,453	197,929	549,000	351,071
Gas-MCF	1,096,879	10,015,087	1,721,000	(8,294,087)
Fuel Oil - Gal	0	32,098	0	(32,098)

Major Energy Supply Projects:

Deerhaven Unit #2 Outage starts 10/8/2016 with the following major Projects:

1. Turbosorp inspection and repairs to remove any operational restrictions. (~\$900K)
2. Refurbishment of 3 Cooling Tower Cells and replacement of the North Wall of Tower. (~\$950K)
3. Replacement of Precipitator wires and bottles. (~\$500K)
4. DCS Hardware upgrades. (~\$400K)
5. West Pulverizer Overhaul. (~\$350K)
6. Replacement of ductwork expansion joints. (~\$350K)

Water/Wastewater Operational Summary

Murphree Water Treatment Plant

	August 2016 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity
Average Daily Flow	23.6	22.1	30	74%
Peak Daily Flow	27.8	29.6	54	-

Main Street Water Reclamation Facility

	August 2016 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)
Average Daily Flow	6.1	6.8	7.5

Kanapaha Water Reclamation Facility

	August 2016 (mgd)	FY to Date (mgd)	Permitted Capacity (mgd)
Average Daily Flow	11.0	11.7	14.9

Water Reclamation Facilities (Combined)

	August 2016	FY to Date (mgd)	Permitted Capacity (mgd)	% of Permitted Capacity
Average Daily Flow	17.1	18.5	22.4	83%

Maintenance

Wastewater Collections	August 2016 (miles)	Monthly Goal (miles)
Miles of gravity mains cleaned	8.8	5.4
Miles of gravity mains TV inspected	8.4	5.4
Water Distribution & Wastewater Collections	August 2016	
Work orders, service orders completed	950	

Major W/WW Projects

Electrical System Upgrade at MWTP - 100% Design Plans, Invitation to Bid in September

KWRF Dewatering Facility and Screens - Fully operational, optimizing operation

Gravity Sewer Lining - SW 13th St/Williston Road, SW 24th Avenue/Schoolhouse Road, Ridgeview neighborhood

Galvanized Steel Pipe Replacements - Stephen Foster Neighborhood, Carol Estates, Newberry Rd/34th St

Lift Station 93 Rehabilitation

Manhole Rehabilitation - Lincoln Estates, Duckpond