SHARED DATA (ED, ES, WWW)

Safety
Environmental
Regulatory
Personnel

#### March 2017

| Safety  |              |               |             | <u>oloyees</u> | _                  |              |             |
|---|--------------|---------------|-------------|----------------|--------------------|--------------|-------------|
|   |              | Current Month |             |                |                    | rear to Date | DART        |
| A desimination                                  | First Aid    | Recordable    | DART        | , ,            | First Aid          | Recordable   | DART        |
| Administration                                  | 0            | 0             | 0           |                | 0                  | 0            | 0           |
| W/WW Systems                                    | 0            | 0             | 0           |                | 0                  | 4            | 0           |
| Energy Supply                                   | 0            | 0             | 0           |                | 2                  | 1            | 1           |
| Energy Delivery - Electric/Gas                  | 0            | 3             | 1           |                | 0                  | 7            | 4           |
| GRUCom  | 0            | 0             | 0           | J L            | 0                  | 0            | 0           |
| Totals  |              | 3             |             |                |                    | 12           | j           |
|   |              |               | Va          | hiolog         |                    |              |             |
|   |              | Current Month |             | <u>hicles</u>  | ,                  | ear to Date  |             |
|   | Miles Driven | Recordable    | Preventable |                | Miles Driven       | Recordable   | Preventable |
| Administration                                  | 26,733       | 0             | 0           | 1 [            | 96,662             | 1            | 1           |
| W/WW Systems                                    | 88,482       | 0             | 0           | 1 1            | 440,432            | 3            | 1           |
| Energy Supply                                   | 1,675        | 0             | 0           | ł              | 11,447             | 0            | 0           |
| Energy Delivery - Electric/Gas                  | 119,761      | 2             | 1           | ł              | 651,939            | 5            | 2           |
| GRUCom  | 10,716       | 0             | 0           | ł              | 57,361             | 0            | 0           |
| Totals  | 247,367      | 2             | U           | ,              | 1,257,841          | 9            | 0           |
| Totals  | 247,307      | 2             |             | L              | 1,237,041          | 9            | J           |
| Environmental                                   |              |               |             |                |                    |              |             |
| Livii omnoma                                    |              | Curren        | t Month     | Ca             | alendar Year to Da | te           |             |
| Notices of Violation                            |              |               | 0           | 1 Î            | 0                  |              |             |
|   |              |               |             |                |                    |              |             |
| Emissions                                       |              |               |             |                |                    |              |             |
| DH1, DH2, DHCT3, JRKCC1                         |              |               |             |                |                    |              |             |
|   | (tons)       | 38.           | 564         | 1 г            | 124,629            |              |             |
|   | (tons)       |               | 23          | 1 1            | 69                 |              |             |
|   |              |               | .2          | ł +            | 0.6                |              |             |
|   | (tons)       | Ü             | .2          | J L            | 0.0                |              |             |
| DH Unit 2 (only)                                |              | 1             |             | 1 6            |                    | ſ            |             |
|   | (tons)       |               | 0           |                | 0                  |              |             |
| Hg  | (lbs)        | 0.            | 00          | ] [            | 0.00               |              |             |
|   |              |               |             |                |                    |              |             |
| Regulatory                                      |              |               |             |                |                    |              |             |
| -   |              | Curren        | t Month     |                | Year to Date       |              |             |
| NERC  |              |               |             |                |                    |              |             |
| Notice of Violations                            |              |               | 0           | Ι Γ            | 0                  |              |             |
| Self Reports/Potential Violations               |              | (             | 0           | 1 1            | 0                  |              |             |
|   |              |               |             |                |                    | ļ            |             |
|   |              |               |             |                |                    |              |             |
| Personnel                                       |              |               |             |                |                    |              |             |
|   |              |               | FTE         | Incumbents     | Vacant             | -            |             |
| Water & Wastewater                              |              | MAPS          | 27.00       | 25.00          | 2.00               |              |             |
|   |              | CWA           | 142.00      | 126.00         | 16.00              |              |             |
| <b>Energy Supply (includes District Energy)</b> |              | MAPS          | 38.00       | 36.00          | 2.00               |              |             |
|   |              | CWA           | 122.00      | 117.00         | 5.00               |              |             |
| Energy Delivery (Electric & Gas)                |              | MAPS          | 50.00       | 40.00          | 10.00              |              |             |
| •   |              | CWA           | 215.00      | 201.80         | 13.20              |              |             |
|   |              |               |             | 545.80         |                    |              |             |

# **CUSTOMER OPERATIONS**

**Operations Data** 

## Customer Operations Metrics Summary March 2017

| Active Accounts               | Mar-17 | YTD Gain/Loss | FY16   |
|-------------------------------|--------|---------------|--------|
| Residential Contract Accounts |        |               |        |
| Total                         | 89,399 | 534           | 88,865 |
| Electric                      | 83,092 | 418           | 82,674 |
| Gas                           | 33,083 | 284           | 32,799 |
| Water                         | 62,505 | 336           | 62,169 |
| Wastewater                    | 58,481 | 330           | 58,151 |
| Telecomm                      | 142    | (11)          | 153    |

| New Installations | Mar-17 | FY17 To Date | FY16  |
|-------------------|--------|--------------|-------|
| Electric          | 69     | 492          | 1,638 |
| Gas               | 46     | 222          | 589   |
| Water             | 58     | 257          | 756   |
| Wastewater        | 52     | 242          | 485   |
| Telecomm          | 19     | 117          | 248   |

| Call Center Volume      | Mar-17  | FY17 To Date | FY16    |
|-------------------------|---------|--------------|---------|
| Average Speed of Answer | 0:02:18 | 0:04:50      | 0:07:04 |
| CSR Calls               | 15,202  | 79,006       | 251,522 |
| IVR Self Service        | 18,540  | 123,661      | 318,483 |
| Total                   | 33,742  | 202,667      | 570,005 |
| IVR/Total               | 55%     | 61%          | 56%     |

| Bills Generated | Mar-17  | FY17 To Date | FY16      |
|-----------------|---------|--------------|-----------|
| Paper Bills     | 96,385  | 607,781      | 1,300,894 |
| eBills          | 15,363  | 99,115       | 179,960   |
| Total           | 111,748 | 706,896      | 1,480,854 |
| eBill/Total     | 14%     | 14%          | 12%       |

| Payment Arrangements | Mar-17 | FY17 To Date | FY16   |
|----------------------|--------|--------------|--------|
| Total                | 7,566  | 47,565       | 97,287 |

| Active Accounts                  | Mar-17 | YTD Gain/Loss | FY16   |
|----------------------------------|--------|---------------|--------|
| Nonresidential Contract Accounts |        |               |        |
| Total                            | 13,653 | 60            | 13,593 |
| Electric                         | 11,099 | 65            | 11,034 |
| Gas                              | 1,628  | 8             | 1,620  |
| Water                            | 5,862  | 9             | 5,853  |
| Wastewater                       | 4,615  | 11            | 4,604  |
| Telecomm                         | 329    | 15            | 314    |

| Residential Disconnects | Mar-17   | FY17 To Date | FY16     |
|-------------------------|----------|--------------|----------|
| Volume                  | 1,115    | 7,321        | 14,593   |
| Average Balance         | \$253.09 | \$249.70     | \$247.00 |

| Revenue Assurance       | Mar-17       | FY17 To Date   | FY16           |
|-------------------------|--------------|----------------|----------------|
| Referred to Collections | \$123,007.16 | \$1,449,460.42 | \$1,461,488.40 |
| Recovered               | \$58,267.27  | \$267,835.26   | \$361,420.79   |

| Service Orders | Mar-17 | FY17 To Date | FY16    |
|----------------|--------|--------------|---------|
| Move Ins       | 7,744  | 42,669       | 137,265 |
| Move Outs      | 7,482  | 42,038       | 132,836 |

| Average Res Bill Amounts | Mar-17  | FY17 To Date | FY16     |
|--------------------------|---------|--------------|----------|
| Electric (kWh)           | 571     | 683          | 840      |
| Electric (\$)            | \$88.13 | \$103.10     | \$126.96 |
| Gas (Therms)             | 19      | 21           | 18       |
| Gas (\$)                 | \$32.37 | \$33.56      | \$29.61  |
| Water (kGals)            | 4       | 5            | 4        |
| Water (\$)               | \$28.47 | \$30.50      | \$27.47  |
| Wastewater (kGals)       | 4       | 5            | 6        |
| Wastewater(\$)           | \$36.98 | \$38.49      | \$41.13  |

4/10/17 VNR

# **ENERGY DELIVERY**

**Operations Data & Projects** 

## Durations Reliability Report Between 3/01/2017 and 3/31/2017

| CUSTOMER DATA                                   |            | RELIABILITY INDICIES                                  |                | MONTHLY<br>AVG<br>GOAL |
|---|------------|---|----------------|------------------------|
| Monthly Average Customers<br>Served(C)          | 94256      | Average Service Availability Index (ASAI)             | 99.9987 %      |                        |
| Total Hours of Customer Demand                  | 67,864,320 | System Average Interruption Duration<br>Index (SAIDI) | 0.58 Mins      | 4.5 Mins               |
| Total Number of Outages                         | 27         | Customer Average Interruption Duration Index (CAIDI)  | 54.94 Mins     | s 55 Mins              |
| Total Number of Customers Affected (CI)         | 999        | System average Interruption Frequency Index (SAIFI)   | 0.01           | .08                    |
| Total Customer Minutes Interrupted (CMI)        | 54890      |   |                |                        |
| Total Customer "Out Minutes"                    | 3218       | Average Length of a Service Interruption (L-Bar)      | 119.19<br>Mins |                        |
| Tot Cust Momentary Interruption<br>Events (CME) | 11,194     |   |                |                        |

Guide for Power Distribution Reliability Indices

#### **Outage Duration Times**

Average Hours 1

Maximum Hours 6

Minimum Hours 0

#### Cause of Outages

| Cause                    | Overhead | Underground | Undetermined | Total |
|--------------------------|----------|-------------|--------------|-------|
| 1. Weather               | 0        | 0           | 0            | 0     |
| 1. Vegetation            | 3        | 5           | 0            | 8     |
| 1. Animals               | 3        | 0           | 0            | 3     |
| 1. Foreign Interference  | 0        | 0           | 0            | 0     |
| 1. Human Cause           | 0        | 1           | 0            | 1     |
| 1. Undetermined          | 2        | 3           | 0            | 5     |
| 1. Equipment Failure     | 1        | 5           | 4            | 10    |
| 1. All Remaining Outages | 0        | 0           | 0            | 0     |
| Total                    | 9        | 14          | 4            | 27    |

#### **Energy Delivery - Major Design Projects - Electric**

#### Major Electric Design Projects underway:

- > Butler Plaza Town Center
- > Blues Creek Unit 7 16 residential units
- > Relocate Switchgear [at Holiday Inn] for roadway re-construction SW 43/32nd Street
- > The Windsor of Gainesville NW 83 St & 39th Ave (Nursing Home)
- > Fairfield Inn & Suites 3700 SSW 37th Blvd.
- > 43rd/53rd Retail Development Old System Control Building

#### Major Electric Design Projects expected to start within 30 days:

- > Drury Inn & Suites 4000 SW 40 Blvd (Hotel)
- > Butler Plaza Town Center Lights
- > Blues Creek Unit 5 PH 2&3 (Residential S/D, 50 lots)
- > Westchester PH 4B 77 Single Family Lots
- > SW 4th Ave OH to UG Conversion
- > One College Park (apartments)
- > CRA NW 1st Ave (OH to UG conversion)
- > Ingenuity (office building)

#### **Energy Delivery - Major Construction Projects - Gas**

#### Major Gas Design Projects:

- Provide NW 43rd St and NW 53rd Ave Retail Development project folder to T&D Gas construction for construction.
- > Prepare construction plans and estimates for Fire Stations # 1(500 Blk S. Main St) and #9 (approx. 1,000 feet of gas main on NW 34th St), Aloft Hotel, Staybridge Hotel and Gloria's Way S/D and Suburban Heights gas relocation, , Gainesville Cohousing, Ronald McDonald house.
- > Design for replacement of 3215 feet of bare steel gas main at 400-800 blocks SW 10th St
- > Provide utility work schedule for the extension 4" gas main on SW 8th Avenue from 137th St to SW 143rd St, about 3,300 feet.

#### Gas Main Installed in March, 2017

- NW 3<sup>rd</sup> St. Project. A rebuild of black plastic and bare steel. Replacing approximately 1.5 miles of main and associated services. This is a Distribution Integrity Management project. We had to pull of this project temporarily to work on new customer extensions.
- 2 Grand Preserve Substation and Apts. ongoing project at 7700 SW Archer Rd. main being installed as necessary. In total we will install 7800' of main. This project is nearing completion.
- Finley Woods Main Ext. 10320' This project has been completed.
- We have been working on and off in the Butler Town Center and Celebration Point as construction is on-going in both of these projects.
- One College Park. 4" Main Replacement as part of CRA project: 2000' This is a joint trench project that will replace poorly coated main and relocate for construction.
- 6 Westchester Phase 4 Main extension: 2500' Nearing Completion.
- 7 Oakmont Phase 2 Main Extension coming soon.
- 8 We completed several minor main relocations for North Florida Emergency Center Billing work.

New Services installed in March: 33 - New Customer work/Not replacement work.

Maintenance Activities – Two man crew – Working on Cathodic Protection Testing and Emergency Valve surveys.

Note 1: Gas Operations and Maintenance Manual Updated as required by code

## **Electric System Consumption**

#### MARCH 2017 BILLING SUMMARY

| ELECTRIC SYSTEM  | CONSUMPTION     | CUSTOMERS      |
|--|-----------------|----------------|
| Feed-In-Tariff   | 2,111 KWH       | 264            |
| Electric - GS - Demand - Regular                         | 39,719,085 KWH  | 1,204          |
| Electric - General Service Demand PV                     | 597,098 KWH     | 17             |
| GREC Startup Supplemental and Standby                    | 525,896 KWH     | 1              |
| Electric - GS - Kanapaha w Curtail Cr                    | 872,400 KWH     | 1              |
| Electric - GS - Demand - Large Power                     | 5,679,320 KWH   | 8              |
| Electric - GS - Murphree Curtail Credit                  | 1,216,800 KWH   | 1              |
| Electric - GS Large Demand PV                            | 3,244,800 KWH   | 2              |
| Electric - GS - Non Demand                               | 11,861,915 KWH  | 9,676          |
| Electric - General Service PV                            | 45,310 KWH      | 51             |
| Electric - Lighting - Rental                             | 1,011,309 KWH   | 4,385 <i>n</i> |
| Electric - Lighting - Street - City                      | 245,374 KWH     | 13 <i>n</i>    |
| Electric - Lighting - Street - County                    | 299,302 KWH     | 2 n            |
| Electric - Lighting - Traffic                            | 4,542 KWH       | 2 n            |
| Electric - Residential - Non TOU                         | 46,817,001 KWH  | 84,513         |
| Electric - Residential PV                                | 82,250 KWH      | 195            |
| Total Retail Electric ( <i>n</i> =not included in total) | 112,224,513 KWH | 95,933         |
| City of Alachua  | 9,570,000 KWH   | 23,069 KW      |
| City of Winter Park                                      | 7,440,000 KWH   | 10,000 KW      |
| Total (Native) Electric                                  | 129,234,513 KWH |                |
|  |                 |                |

## **Gas System Consumption**

#### **GAS SYSTEM**

| Gas - GS - Regular Service (Firm)        | 775,995 THM   | 1,447  |
|--|---------------|--------|
| Gas - GS - Regular Service (Small)       | 16,365 THM    | 218    |
| Gas - GS - Interrruptible - Regular Serv | 41,820 THM    | 1      |
| Gas - GS - Interrruptible - Large Volume | 388,906 THM   | 6      |
| Gas - Residential - Regular Service      | 623,989 THM   | 33,316 |
| Total Retail Gas                         | 1,847,075 THM | 34,988 |
| Gas - GS - UF Cogeneration Plant         | 3,333,181 THM | 1      |
| Gas - Residential - LP - Basic Rate      | 4,313 GAL     | 198    |
| GREC Gas (PGA Only)                      | 25,720 THM    | 1      |

# **ENERGY SUPPLY**

**Operations Data & Projects** 

#### **Energy Supply**

#### **System Statistics**

DH-2
DH-1
Kelly CC
CT's
Grid
GREC

#### **Unit Capability output - MWn**

| Offic Capability Output - WIN |
|-------------------------------|
| 235                           |
| 75                            |
| 108                           |
| 106                           |
| 2 X 224                       |
| 102.5                         |

**YTD** 

#### **Energy Supply - MWHrs Delivered**

Source

DH-2 DH-1 Kelly CC CT's Grid GREC

|        |         | _       |           |
|--------|---------|---------|-----------|
| -      | -       | 342,878 | (342,878) |
| 20,489 | 114,018 | 2,145   | 111,873   |
| 45,609 | 387,696 | 249,843 | 137,853   |
| -      | 3,320   | 46      | 3,274     |
| 30,000 | 261,867 | 38,326  | 223,541   |
| 34,875 | 101,646 | 242,825 | (141,179) |

**Budget YTD** 

**Delta Budget** 

#### **Average Energy Distribution Curve**

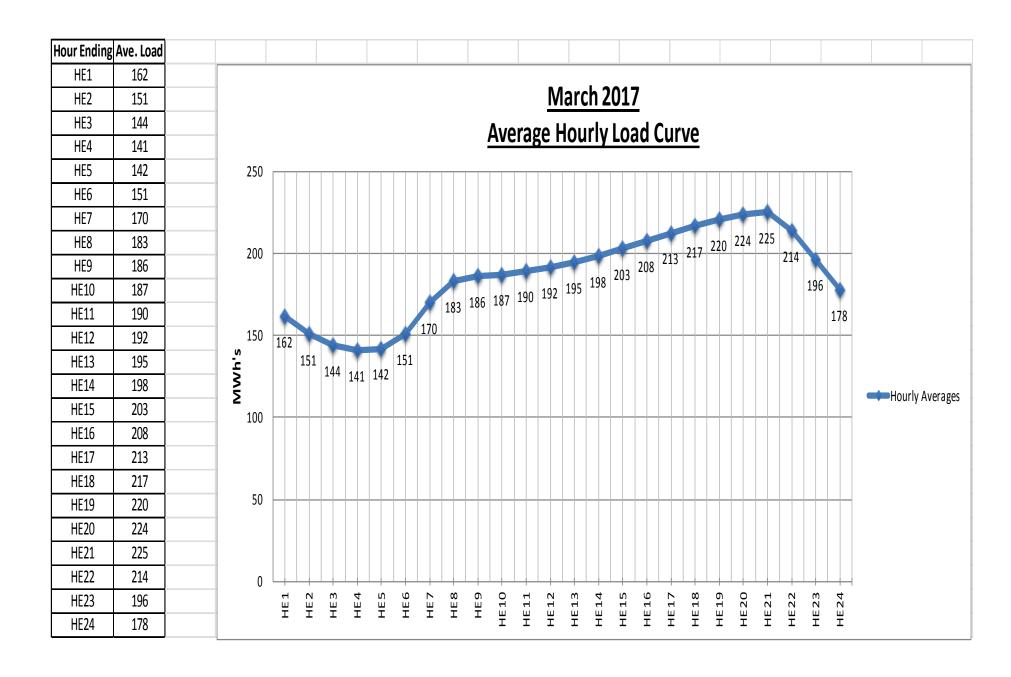
Curve 1 is the hourly distribution of load averages over the month h Curve 2 is peak load per day h

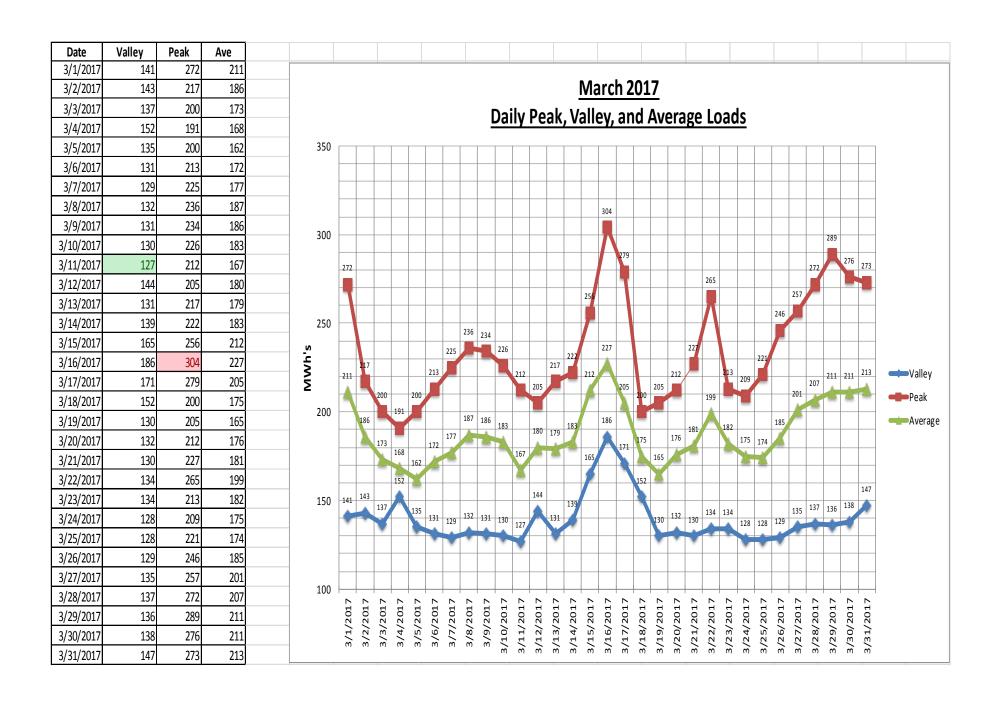
Month

#### **Fuel Consumed**

Coal - Tons Gas-MCF Fuel oil - Gal

| Month |         | YTD       | <b>Budget YTD</b> | Delta Budget |  |
|-------|---------|-----------|-------------------|--------------|--|
|       | -       | -         | 132,598           | (132,598)    |  |
|       | 593,615 | 4,587,365 | 4,305,475         | 281,890      |  |
|       | -       | 2,705     | -                 | 2,705        |  |





#### **ENERGY SUPPLY MAJOR PROJECTS**

- 1. Deerhaven Unit #2 has been in Forced Outage since on 9/29/2016 following the failure of the Circulating Dry Scrubber (CDS). Current status:
  - a. Lower cone section has been completely replaced
  - b. Baghouse and the CDS outlet duct has been completely coated
  - c. Fabrication of shell sections was complete, and all materials was on site 3/10/2017.
  - d. Construction of shell:
    - i. We landed first lift of sections 1-4 on 3/18/2017 (~120,000 lb. lift),
       Section 5-7 and the outlet duct were landed on 3/30/2017 (~167,000 lb. lift)
    - ii. We have 2 significant issues we are addressing:
      - The first issue is at the load support ring and the second is where section 4 and 5 meet with ovality issues. We are working with both the OEM Babcock Power PE, and our third party PE from Sargent & Lundy, to come up with the support changes to ensure these issues are fully resolve.
      - 2. It will be Energy Supply mission to ensure the final repairs will be done is such a way that the Finite Element Analysis (FEA)Modeling demonstrates adequate margin for structural safety, and we want this done right the first time.
      - 3. Currently plan is to support the upper sections with the crane as it appears we will be installing a "gasket" between sections 4 and 5.
- 2. South Energy Center (Phase #2) Project is on track with the following milestones:
  - a. Heating Hot Water System Released for Service to Hospital 5/1/2017
  - b. Chiller CHL-003 Released for Service to Hospital 4/14/2017
  - c. Wartsilla Engine Released for Service to Hospital 6/5/2017

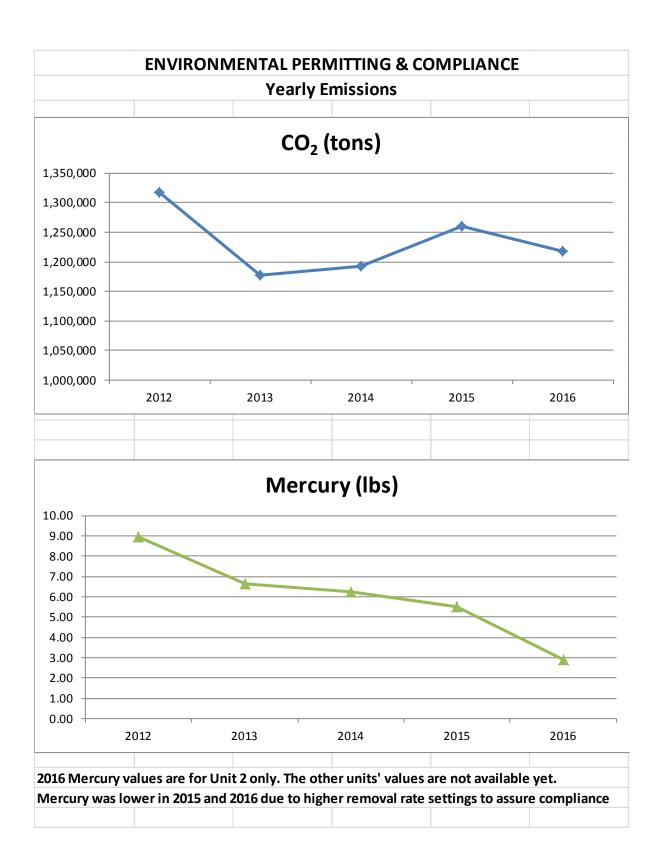
# Environmental Permitting & Compliance

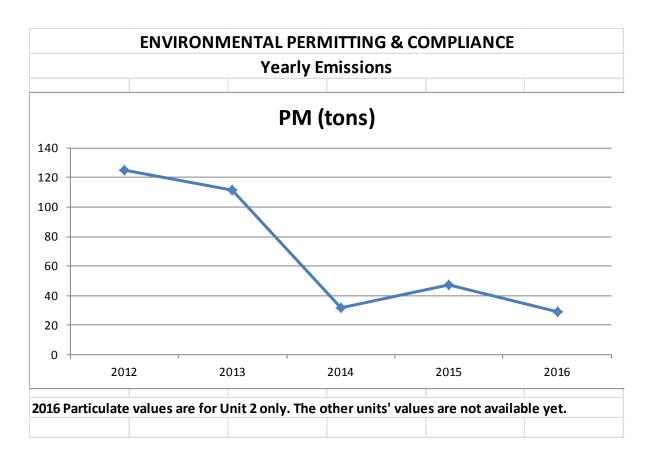
|      | <b>ENVIRONMENTAL PERMITTING &amp; COMPLIANCE</b> |                        |               |           |                        |  |  |  |  |  |  |
|------|--|------------------------|---------------|-----------|------------------------|--|--|--|--|--|--|
|      | Yearly Emissions                                 |                        |               |           |                        |  |  |  |  |  |  |
|      | SO <sub>2</sub> (tons)                           | NO <sub>x</sub> (tons) | Mercury (lbs) | PM (tons) | CO <sub>2</sub> (tons) |  |  |  |  |  |  |
| 2012 | 1,182  | 450                    | 8.95          | 125       | 1,317,603              |  |  |  |  |  |  |
| 2013 | 1,134  | 653                    | 6.64          | 112       | 1,177,703              |  |  |  |  |  |  |
| 2014 | 1,144  | 1,052                  | 6.23          | 32        | 1,192,647              |  |  |  |  |  |  |
| 2015 | 532  | 608                    | 5.49          | 47        | 1,260,423              |  |  |  |  |  |  |
| 2016 | 354  | 988                    | 2.92          | 29        | 1,217,939              |  |  |  |  |  |  |

2016 Mercury and particulate values are for Unit 2 only. The other units' values are not available yet.



 $SO_2$  was lower in 2015 and 2016 due to higher removal rate settings to assure compliance with  $NO_x$  was higher in 2016 since it was more cost effective to use allowances than increase SCR





|              |           |                        | YEARLY E               | MISSIONS - 5 Y  | R COMPA      | RISON                  |              |                        |
|--------------|-----------|------------------------|------------------------|-----------------|--------------|------------------------|--------------|------------------------|
| Mass Emissio | ns        |                        |                        |                 |              |                        |              |                        |
|              |           |                        |                        |                 |              |                        |              |                        |
|              |           | SO <sub>2</sub> (tons) | NO <sub>X</sub> (tons) | Mercury (lbs)   | PM (tons)    | CO <sub>2</sub> (tons) | HTIP (MMBtu) | GEN (MW-hours)         |
|              | Mar-13    | 123.9                  | 50.0                   |                 |              | 97,391                 | 964,499      | 107,407                |
|              | Mar. 2014 | 168.6                  | 121.8                  |                 |              | 105,937                | 1,053,689    | 107,324                |
|              | Mar. 2015 | 33.9                   | 53.9                   |                 |              | 97,066                 | 947,208      | 103,468                |
|              | Mar. 2016 |                        | 103.9                  | 0.3             | 2.8          | 94,831                 | 1,191,312    | 137,236                |
|              | Mar. 2017 | 0.2                    | 23.2                   | 0.0             | 0.0          | 38,564                 | 648,940      | 68,731                 |
|              |           |                        |                        |                 |              |                        |              |                        |
|              |           | SO <sub>2</sub> (tons) | NO <sub>x</sub> (tons) | Mercury (lbs)   | PM (tons)    | CO <sub>2</sub> (tons) | HTIP (MMBtu) | GEN (MW-hours)         |
| Mar. 2013    | DH1       | 0.0                    | 2.5                    |                 |              | 2,039.9                | 34,325.0     | 2,686.0                |
|              | DH2       | 123.5                  | 47.3                   |                 |              | 95,197.9               | 927,856.0    | 104,569.0              |
|              | DHCT3     | 0.4                    | 0.1                    |                 |              | 62.0                   | 784.0        | 48.0                   |
|              | JRKCC1    | 0.0                    | 0.1                    |                 |              | 91.2                   | 1,534.0      | 104.0                  |
|              | TOTAL     | 123.9                  | 50.0                   | 0.000           | 0.00         | 97,391.0               | 964,499.0    | 107,407.0              |
|              |           |                        |                        |                 |              |                        |              |                        |
|              |           | SO <sub>a</sub> (tons) | NO <sub>x</sub> (tons) | Mercury (lbs)   | PM (tons)    | CO <sub>a</sub> (tons) | HTIP (MMRtu) | GEN (MW-hours)         |
| Mar. 2014    | DH1       | 0.0                    | 3.6                    | (iii )          | ()           | 2,647.3                | 44,545.0     | 4,086.0                |
| Mai. 2014    | DH1       | 168.3                  | 3.0<br>118.1           |                 |              | 103,177.3              | 1,007,447.0  | 103,122.0              |
|              |           |                        |                        |                 |              |                        |              | •                      |
|              | DHCT3     | 0.3                    | 0.1                    |                 |              | 111.9                  | 1,697.0      | 116.0                  |
|              | JRKCC1    | 0.0                    | 0.0                    | 0.000           | 0.00         | 0.0                    | 0.0          | 0.0                    |
|              | TOTAL     | 168.6                  | 121.8                  | 0.000           | 0.00         | 105,936.5              | 1,053,689.0  | 107,324.0              |
|              |           |                        |                        |                 |              |                        |              |                        |
|              |           | SO <sub>2</sub> (tons) | NO <sub>x</sub> (tons) | Mercury (lbs)   | PM (tons)    | CO <sub>2</sub> (tons) | HTIP (MMBtu) | GEN (MW-hours)         |
| Mar. 2015    | DH1       | 0.0                    | 0.0                    |                 |              | 0.0                    | 0.0          | 0.0                    |
|              | DH2       | 33.9                   | 53.9                   |                 |              | 96,905.4               | 944,504.0    | 103,256.0              |
|              | DHCT3     | 0.0                    | 0.0                    |                 |              | 0.0                    | 0.0          | 0.0                    |
|              | JRKCC1    | 0.0                    | 0.0                    |                 |              | 160.8                  | 2,704.0      | 212.0                  |
|              | TOTAL     | 33.9                   | 53.9                   | 0.000           | 0.00         | 97,066.2               | 947,208.0    | 103,468.0              |
|              |           |                        |                        | 0.000           |              | ,                      | ,            |                        |
|              |           | CO (torre)             | NO (tame)              | Maraury (lba)   | DM (topo)    | CO (tama)              | LITID (MADE) | OFNI (NAA/ Is a see a) |
| Mar. 2016    | DIM       |                        |                        | iviercury (ibs) | PIVI (IOIIS) |                        | , ,          | GEN (MW-hours)         |
| IVIAI. 2010  | DH1       | 0.0                    | 0.0                    | 0.00            | 2.04         | 0.0                    | 0.0          | 0.0                    |
|              | DH2       | 22.4                   | 96.8                   | 0.28            | 2.84         | 57,110.3               | 556,623.0    | 60,858.0               |
|              | DHCT3     | 0.0                    | 0.0                    |                 |              | 0.0                    | 0.0          | 0.0                    |
|              | JRKCC1    | 0.2                    | 7.1                    | 0.075           | 0.04         | 37,720.6               | 634,689.0    | 76,378.0               |
|              | TOTAL     | 22.6                   | 103.9                  | 0.275           | 2.84         | 94,830.9               | 1,191,312.0  | 137,236.0              |
|              |           |                        |                        |                 |              |                        |              |                        |
|              |           | SO <sub>2</sub> (tons) | NO <sub>X</sub> (tons) | Mercury (lbs)   | PM (tons)    | CO <sub>2</sub> (tons) | HTIP (MMBtu) | GEN (MW-hours)         |
| Mar. 2017    | DH1       | 0.1                    | 18.1                   |                 |              | 16,729.4               | 281,510.0    | 22,684.0               |
|              | DH2       | 0.0                    | 0.0                    | 0.000           | 0.000        | 0.0                    | 0.0          | 0.0                    |
|              | DHCT3     | 0.0                    | 0.1                    |                 |              | 510.0                  | 8,593.0      | 594.0                  |
|              | JRKCC1    | 0.1                    | 5.0                    |                 |              | 21,325.0               | 358,837.0    | 45,453.0               |
|              | TOTAL     | 0.2                    | 23.2                   | 0.000           | 0.0          | 38,564.4               | 648,940.0    | 68,731.0               |

|           |           |                                   | YEAR                              | LY EMISSIONS PEI        | R MWH - 5 YEAR CO           | OMPARISON                          |              |                    |
|-----------|-----------|-----------------------------------|-----------------------------------|-------------------------|-----------------------------|------------------------------------|--------------|--------------------|
| Mass Em   | issions F | Rate                              |                                   |                         |                             |                                    |              |                    |
|           |           | SO <sub>2</sub> lbs per MW-hr net | NO <sub>X</sub> lbs per MW-hr net | Hg lbs per MW-hr net    | PM lbs per MW-hr net        | CO <sub>2</sub> tons per MW-hr net | HTIP (MMBtu) | GEN (Net MW-hours) |
| Mar. 2013 | DH1       | 0.00000                           | 1.86150                           |                         |                             | 0.75946                            | 34,325.0     | 2,686.0            |
|           | DH2       | 2.36208                           | 0.90467                           |                         |                             | 0.91038                            | 927,856.0    | 104,569.0          |
|           | DHCT3     | 16.66667                          | 4.16667                           |                         |                             | 1.29167                            | 784.0        | 48.0               |
|           | JRKCC1    | 0.00000                           | 1.92308                           |                         |                             | 0.87692                            | 1,534.0      | 104.0              |
|           |           |                                   |                                   |                         |                             |                                    |              |                    |
|           |           |                                   |                                   |                         |                             |                                    |              |                    |
|           |           | SO <sub>2</sub> lbs per MW-hr net | NO <sub>X</sub> lbs per MW-hr net | Hg lbs per MW-hr net    | PM lbs per MW-hr net        | CO <sub>2</sub> tons per MW-hr net | HTIP (MMBtu) | GEN (Net MW-hours) |
| Mar. 2014 |           | 0.00000                           | 1.76211                           |                         |                             | 0.64790                            | 44,545.0     | 4,086.0            |
|           | DH2       | 3.26409                           | 2.29049                           |                         |                             | 1.00054                            | 1,007,447.0  | 103,122.0          |
|           | DHCT3     | 5.17241                           | 1.72414                           |                         |                             | 0.96466                            | 1,697.0      | 116.0              |
|           | JRKCC1    | 0.00000                           | 0.00000                           |                         |                             | 0.00000                            | 0.0          | 0.0                |
|           |           | SO <sub>2</sub> lbs per MW-hr net | NO <sub>X</sub> lbs per MW-hr net | Hg lbs per MW-hr net    | PM lbs per MW-hr net        | CO <sub>2</sub> tons per MW-hr net | HTIP (MMBtu) | GEN (Net MW-hours) |
| Mar. 2015 | DH1       | 0.00000                           | 0.00000                           | rig iso per mirr in net | Timbo por miv in not        | 0.00000                            | 0.0          | 0.0                |
| Wai. 2010 | DH2       | 0.65662                           | 1.04401                           |                         |                             | 0.93850                            | 944,504.0    | 103,256.0          |
|           | DHCT3     | 0.00002                           | 0.00000                           |                         |                             | 0.00000                            | 0.0          | 0.0                |
|           | JRKCC1    | 0.00000                           | 0.00000                           |                         |                             | 0.75849                            | 2,704.0      | 212.0              |
|           |           |                                   |                                   |                         |                             |                                    |              |                    |
|           |           | SO <sub>2</sub> lbs per MW-hr net | NO <sub>X</sub> lbs per MW-hr net | Hg lbs per MW-hr net    | PM lbs per MW-hr net        | CO <sub>2</sub> tons per MW-hr net | HTIP (MMBtu) | GEN (Net MW-hours) |
| Mar. 2016 | DH1       | 0.00000                           | 0.00000                           |                         |                             | 0.00000                            | 0.0          | 0.0                |
|           | DH2       | 0.73614                           | 3.18118                           | 0.000005                | 0.093                       | 0.93842                            | 556,623.0    | 60,858.0           |
|           | DHCT3     | 0.00000                           | 0.00000                           |                         |                             | 0.00000                            | 0.0          | 0.0                |
|           | JRKCC1    | 0.00524                           | 0.18592                           |                         |                             | 0.49387                            | 634,689.0    | 76,378.0           |
|           |           |                                   |                                   |                         |                             |                                    |              |                    |
|           |           | SO <sub>2</sub> lbs per MW-hr net | NO <sub>x</sub> lbs per MW-hr net | Hg lbs per MW-hr net    | PM lbs per MW-hr net        | CO <sub>2</sub> tons per MW-hr net | HTIP (MMBtu) | GEN (Net MW-hours) |
| Mar. 2017 | DH1       | 0.00882                           | 1.59584                           | rig ibo por wire in not | 1 III loo por Mire III flot | 0.73750                            | 281,510.0    | 22,684.0           |
| 2011      | DH2       | 0.00002                           | 0.00000                           | 0.000000                | 0.000                       | 0.00000                            | 0.0          | 0.0                |
|           | DHCT3     | 0.00000                           | 0.33670                           | 0.00000                 | 0.000                       | 0.85859                            | 8,593.0      | 594.0              |
|           | JRKCC1    | 0.00440                           | 0.22001                           |                         |                             | 0.46917                            | 358,837.0    | 45,453.0           |

|         | PREVIOUS YEAR (2016)      |                                      |               |           |                                |                        |              |             |  |  |  |  |  |
|---------|---------------------------|--------------------------------------|---------------|-----------|--------------------------------|------------------------|--------------|-------------|--|--|--|--|--|
| 2016    | Emissions                 |                                      |               |           |                                |                        |              |             |  |  |  |  |  |
|         |                           |                                      |               |           |                                |                        |              |             |  |  |  |  |  |
|         | SO <sub>2</sub> (tons)    | NO <sub>X</sub> (tons)               | Mercury (lbs) | PM (tons) | CO <sub>2</sub> (tons)         | $NO_X$ Rate (lb/mmBtu) | HTIP (mmBtu) | MW-hours    |  |  |  |  |  |
| DH1     | 2.7                       | 161.4                                | NA            | NA        | 139,749.8                      | 0.1340                 | 2,349,851.0  | 202,123.0   |  |  |  |  |  |
| DH2     | 349.5                     | 737.6                                | 5.136         | 24.6      | 683,555.8                      | 0.2320                 | 6,664,325.0  | 675,645.0   |  |  |  |  |  |
| DHCT3   | 0.0                       | 1.2                                  | NA            | NA        | 4,737.4                        | 0.0420                 | 79,720.0     | 6,062.0     |  |  |  |  |  |
| JRKCC1  | 2.0                       | 83.8                                 | 0.000         | NA        | 388,646.5                      | 0.0260                 | 6,539,729.0  | 796,347.0   |  |  |  |  |  |
| TOTAL   | 354.2                     | 984.0                                | 5.136         | 24.6      | 1,216,689.5                    | 0.434                  | 15,633,625.0 | 1,680,177.0 |  |  |  |  |  |
|         |                           |                                      |               |           |                                |                        |              |             |  |  |  |  |  |
|         |                           |                                      |               |           |                                |                        |              |             |  |  |  |  |  |
| 2016 Em | nissions per Ne           | t MW-hr                              |               |           |                                |                        |              |             |  |  |  |  |  |
|         |                           |                                      |               |           |                                |                        |              |             |  |  |  |  |  |
|         | SO <sub>2</sub> lbs/MW-hr | $\mathbf{NO}_{\mathbf{X}}$ lbs/MW-hr | Mercury (lbs) | PM (lbs)  | CO <sub>2</sub> tons per MW-hr |                        |              |             |  |  |  |  |  |
| DH1     | 0.02672                   | 1.59705                              | NA            | NA        | 0.69141                        |                        |              |             |  |  |  |  |  |
| DH2     | 1.03457                   | 2.18340                              | 0.0000076009  | 0.07284   | 1.01171                        |                        |              |             |  |  |  |  |  |
| DHCT3   | 0.00000                   | 0.39591                              | 0.000         |           | 0.78149                        |                        |              |             |  |  |  |  |  |
| JRKCC1  | 0.00502                   | 0.21046                              | 0.000         | NA        | 0.488                          |                        |              |             |  |  |  |  |  |

|        |                           |                           |               | YTD 2017 (Jan-Mar) |                            |                                 |                                 |              |                |
|--------|---------------------------|---------------------------|---------------|--------------------|----------------------------|---------------------------------|---------------------------------|--------------|----------------|
|        | SO <sub>2</sub> (tons)    | NO <sub>X</sub> (tons)    | Mercury (lbs) | PM (tons)          | CO <sub>2</sub> (tons)     | SO <sub>2</sub> Rate (lb/mmBtu) | NO <sub>X</sub> Rate (lb/mmBtu) | HTIP (MMBtu) | GEN (MW-hours) |
| DH1    | 0.2                       | 50.0                      |               |                    | 46,121.8                   |                                 |                                 | 776,096.0    | 62,852.0       |
| DH2    | 0.0                       | 0.0                       | 0.0           | 0.00               | 0.0                        |                                 |                                 | 0.0          | 0.0            |
| DHCT3  | 0.0                       | 0.5                       |               |                    | 1,920.1                    |                                 |                                 | 32,307.0     | 2,192.0        |
| JRKCC1 | 0.4                       | 18.0                      |               |                    | 76,587.5                   |                                 |                                 | 1,288,730.0  | 160,964.0      |
| TOTAL  | 0.6                       | 68.5                      | 0.000         | 0.0                | 124,629.4                  |                                 |                                 | 2,097,133.0  | 226,008.0      |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        |                           |                           |               | 2017 (Jan-Mar)     | Emissions per MW-hr        |                                 |                                 |              |                |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        | SO <sub>2</sub> lbs/MW-hr | NO <sub>X</sub> lbs/MW-hr | Mercury (lbs) | PM (lbs)           | CO <sub>2</sub> tons/MW-hr | SO <sub>2</sub> Rate (lb/mmBtu) | NO <sub>X</sub> Rate (lb/mmBtu) | HTIP (MMBtu) | GEN (MW-hours) |
| DH1    | 0.00636                   | 1.59104                   |               |                    | 0.73382                    |                                 |                                 | 776,096.0    | 62,852.0       |
| DH2    | 0.00000                   | 0.00000                   | 0.00000       | 0.0000             | 0.00000                    |                                 |                                 | 0.0          | 0.0            |
| DHCT3  | 0.00000                   | 0.45620                   |               |                    | 0.87596                    |                                 |                                 | 32,307.0     | 2,192.0        |
| JRKCC1 | 0.00497                   | 0.22365                   |               |                    | 0.47581                    |                                 |                                 | 1,288,730.0  | 160,964.0      |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |
|        |                           |                           |               |                    |                            |                                 |                                 |              |                |

## WATER/WASTEWATER

**Operations Data & Projects** 

| Water/Wastewater Monthly Dashboard |                                     |                  |                     |                                |                               |        |  |  |  |  |  |
|------------------------------------|-------------------------------------|------------------|---------------------|--------------------------------|-------------------------------|--------|--|--|--|--|--|
|                                    | Production                          |                  |                     |                                |                               |        |  |  |  |  |  |
| Murphree Water Tr                  | eatment Plant                       |                  |                     |                                |                               |        |  |  |  |  |  |
| ·                                  |                                     | March 2017 (mgd) | FY to Date<br>(mgd) | Permitted<br>Capacity<br>(mgd) | % of<br>Permitted<br>Capacity | Status |  |  |  |  |  |
|                                    | Average Daily Flow                  | 22.1             | 22.7                | 30                             | 76%                           |        |  |  |  |  |  |
|                                    | Peak Daily Flow                     | 26.3             | 29.6                | 54                             | -                             |        |  |  |  |  |  |
| Main Street Water F                | Reclamation Facility                | /                |                     |                                |                               |        |  |  |  |  |  |
|                                    |                                     | March 2017 (mgd) |                     | Permitted<br>Capacity<br>(mgd) |                               | Status |  |  |  |  |  |
|                                    | Average Daily Flow                  | 5.1              | 5.6                 | 7.5                            |                               |        |  |  |  |  |  |
| Kanapaha Water R                   | eclamation Facility                 |                  |                     |                                |                               |        |  |  |  |  |  |
|                                    |                                     | March 2017 (mgd) | FY to Date (mgd     | Permitted<br>Capacity<br>(mgd) |                               | Status |  |  |  |  |  |
|                                    | Average Daily Flow                  | 10.4             | 10.6                | 14.9                           |                               |        |  |  |  |  |  |
| <b>Water Reclamation</b>           | Facilities (Combine                 | ed)              |                     |                                |                               |        |  |  |  |  |  |
|                                    |                                     | March 2017 (mgd) | FY to Date (mgd     | Permitted<br>Capacity<br>(mgd) | % of Permitted Capacity       | Status |  |  |  |  |  |
|                                    | Average Daily Flow                  | 15.5             | 16.2                | 22.4                           | 72%                           |        |  |  |  |  |  |
|                                    |                                     | Maintenan        | ice                 |                                |                               |        |  |  |  |  |  |
| Wastewater Collect                 | tions                               |                  |                     |                                |                               |        |  |  |  |  |  |
|                                    |                                     | Ma               | rch 2017 (Mil       | FYTD                           | thly Goal (n                  | niles) |  |  |  |  |  |
|                                    | Miles of gravity mains c            | 8.5              | 41.7                | 7.5                            |                               |        |  |  |  |  |  |
|                                    | Miles of gravity mains TV inspected |                  |                     | 44.4                           | 7.5                           |        |  |  |  |  |  |
| Water Distribution                 | & Wastewater Colle                  | ections          | Mar-17              | FYTD                           |                               |        |  |  |  |  |  |
|                                    | Work orders, service or             | ders completed   | 1263                | 7479                           |                               |        |  |  |  |  |  |

## **Major Water/Wastewater Projects**

Electrical System Upgrade at MWTP - Notice to Proceed will be executed in April with General Contractor Manhole Lining

**Gravity Sewer Lining** 

Galvanized Steel Pipe Replacements

Lift Station 40 GM and FM - Complete

Gulfview water replacements & sewer lining - Complete

### Water/Wastewater By the Numbers

Water/Wastewater Systems serves 189,000 people by operating and maintaining the following:

- 1 water treatment plant serving the community
- 1141 miles of water distribution mains
- 24,260 water valves
- 5,800 fire hydrants
  - 2 water reclamation facilities (wastewater treatment plants)
  - 770 miles of wastewater collection mains
  - 168 lift stations pumping wastewater
  - 28 reclaimed water mains
- 15,228 manholes