

# GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



## June 2016 MONTHLY PERFORMANCE REPORT

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## 1. SUMMARY

The plant was on reserve shutdown all of June. There were no safety or environmental incidents. However, there was an incident at the tipper in which a truck driver damaged his trailer door, and an employee driving a company truck hit a deer. There were no injuries (except to the deer).

### **Operations:**

The plant was called to start-up for normal operations on 6/20 and approximately 2 hours later told to return to standby. The unit has been available for 720 hours this month.

The boiler and main steam lines remain in a dry lay-up with a nitrogen cap. The DA/ Feedwater tank continue to be in a wet lay-up with a nitrogen cap and the turbine/condenser is being supplied with a dehumidified air purge. We continue to receive dry fuel (to be covered).

## 2. MONTHLY PERFORMANCE DATA

| 2016                            |          |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
|---------------------------------|----------|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| PLANT SUMMARY                   | Jan      | Feb | Mar   | Apr | May   | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QTR 1 | QTR 2 | QTR 3 | QTR 4 | YTD   |
| <b>Monthly Performance Data</b> |          |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| <b>Operations</b>               |          |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| Gross Generation (MWh)          | 0        | 0   | 2,095 | 0   | 2,044 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2,095 | 2,044 | 0     | 0     | 4,139 |
| Net Generation (MWh)            | 0        | 0   | 1,835 | 0   | 1,800 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1,835 | 1,800 | 0     | 0     | 3,634 |
| Solid Fuel Flow (ft3)           | REDACTED |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| Solid fuel Flow (Tons)          | REDACTED |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| Natural Gas Usage MMBTU         | 0        | 0   | 3,059 | 0   | 1,792 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3,059 | 1,792 | 0     | 0     | 4,851 |
| Avg Burn rate (Tons/nMWH)       | REDACTED |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| Operating hours                 | 0        | 0   | 17    | 0   | 19    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 17    | 19    | 0     | 0     | 37    |
| Number of trips                 | 0        | 0   | 1     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1     | 0     | 0     | 0     | 1     |
| <b>Safety</b>                   |          |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| Lost Time Accidents             | 0        | 0   | 0     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| Lost Time Incident Rate         | 0        | 0   | 0     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| Recordables                     | 0        | 0   | 0     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| Recordable Incident Rate        | 0        | 0   | 0     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| First Aid Incidents             | 0        | 0   | 0     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| Near Miss Incidents             | 0        | 0   | 0     | 0   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| <b>Maintenance: WO Summary</b>  |          |     |       |     |       |     |     |     |     |     |     |     |       |       |       |       |       |
| Start Backlog                   | 206      | 111 | 109   | 255 | 256   | 127 | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| End Backlog                     | 110      | 91  | 93    | 116 | 163   | 151 | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| New Wos/Comp Rec WO's           | 18       | 20  | 32    | 26  | 36    | 140 | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| Total Completed W.O.s           | 114      | 157 | 157   | 139 | 152   | 172 | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |
| Received WO's                   | 40       | 198 | 188   | 184 | 59    | 196 | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     | 0     |

### 3. PRODUCTION STATISTICS

| 2016                               |         |        |           |        |           |        |     |     |     |     |     |     |           |           |       |       |           |
|------------------------------------|---------|--------|-----------|--------|-----------|--------|-----|-----|-----|-----|-----|-----|-----------|-----------|-------|-------|-----------|
| Production Statistics              | Jan     | Feb    | Mar       | Apr    | May       | Jun    | Jul | Aug | Sep | Oct | Nov | Dec | QTR 1     | QTR 2     | QTR 3 | QTR 4 | YTD       |
| <b>Monthly Performance Data</b>    |         |        |           |        |           |        |     |     |     |     |     |     |           |           |       |       |           |
| <b>Other</b>                       |         |        |           |        |           |        |     |     |     |     |     |     |           |           |       |       |           |
| Ammonia Received (Gallons)         | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Ammonia Consumed                   | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Sodium Bicarbonate Received (Tons) | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Sodium Bicarbonate Consumed        | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Bottom Ash Generated (Tons)        | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Fly Ash Generated (Tons)           | 43      | 25     | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 68        | 0         | 0     | 0     | 68        |
| Filter Cake (Tons)                 | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| <b>Diesel Fuel</b>                 |         |        |           |        |           |        |     |     |     |     |     |     |           |           |       |       |           |
| Diesel Fuel Received               | 0       | 0      | 845       | 3,550  | 985       | 793    | 0   | 0   | 0   | 0   | 0   | 0   | 845       | 5,328     | 0     | 0     | 6,173     |
| Diesel Fuel Burned                 | 0       | 0      | 845       | 3,550  | 985       | 793    | 0   | 0   | 0   | 0   | 0   | 0   | 845       | 5,328     | 0     | 0     | 6,173     |
| - Heavy Equipment                  | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| - Boiler                           | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Total                              | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| Diesel Fuel Ending Inventory       | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 0         | 0     | 0     | 0         |
| <b>Water</b>                       |         |        |           |        |           |        |     |     |     |     |     |     |           |           |       |       |           |
| Process Water Usage                | 256,162 | 80,763 | 2,037,975 | 16,664 | 1,207,276 | 78,329 | 0   | 0   | 0   | 0   | 0   | 0   | 2,374,900 | 1,302,269 | 0     | 0     | 3,677,169 |
| Reclaim Water Usage                | 0       | 0      | 0         | 0      | 0         | 0      | 0   | 0   | 0   | 0   | 0   | 0   | 0         | 78,329    | 0     | 0     | 78,329    |

## 4. SAFETY

### NAES Staff

|                           | Month     | Hours            | First Aid   | Recordable  | Rec. Rate   | LTA         | LTA Rate    | Near Miss   |
|---------------------------|-----------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                           | January   | 4913.5           | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | February  | 5964.50          | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | March     | 5982.50          | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | April     | 8825.50          | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | May       | 5869.25          | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | June      | 5363.00          | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | July      | 0.00             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | August    | 0.00             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | September | 0.00             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | October   | 0.00             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | November  | 0.00             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | December  | 0.00             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
| <b>Year to Date Total</b> |           | <b>36,918.25</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### Contractors

|                           | Month     | Hours         | First Aid   | Recordable  | Rec. Rate   | LTA         | LTA Rate    | Near Miss   |
|---------------------------|-----------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                           | January   | 90            | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | February  | 98            | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | March     | 181           | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | April     | 220           | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | May       | 78            | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | June      | 188           | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | July      | 0             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | August    | 0             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | September | 0             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | October   | 0             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | November  | 0             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
|                           | December  | 0             | 0           | 0           | 0.0         | 0           | 0.0         | 0           |
| <b>Year to Date Total</b> |           | <b>855.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

**Accidents:**

There was an incident at the truck tipper in which an employee damaged a truck door, and another incident in which an employee hit a deer in a company truck.

**Near Miss Reports:**

No Near Miss Reports were completed in June.

**Training:**

37 individuals completed 75 safety courses in June.

## 5. ENGINEERING & ENVIRONMENTAL

NOX Ozone Season – September 30<sup>th</sup>

## 6. OPERATIONS

There was no electrical generation during the month.

A total of 90 trucks were unloaded with 2338.54 tons of wood received.

There were a total of 84 Safe Work Permits, 41 LOTOs, and 9 Confined Space Permit issued.

GREC was directed by GRU to start-up for normal operations. Two hours later GRU called back and told GREC to return to standby.

## 7. WATER CHEMISTRY

- **Cooling Tower:** Continue to recirculate CT basin in order to maintain chemistry.
- **Boiler/ Make-Up Water:** Periodically running the make-up water system to flush and maintain readiness.
- **Well/Reclaim Water:** Reclaim water has been secured and well water use as been curtailed while in Reserve Shutdown.
- **ZDS:** ZDS systems are in standby.
- **Potable water:** Completed and submitted monthly and quarterly samples, including Bacteria.

## 8. FUEL HANDLING

- Received 90 trucks of wood fuel.
- PMs performed on belts and machines.
- Fuel pile turning completed.

## 9. TRAINING

- GPILearn: 37 individuals completed 120 total courses in June.
- 3 contractors received NAES site safety training in June.



## 10. MAINTENANCE

- Maintenance department worked on GPi-Learn training.
- Attended weekly safety meeting with crews.
- All maintenance had hearing and respiratory fit testing.
- IC/E worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Attended weekly MOC meeting.
- Met with IAFD and discussed expansion joints.
- IC/E worked on security camera.
- FDC worked on front gate issues.
- IC/E worked on camera issues.
- Valmet worked on backup drives, Metso DCS.
- Pulled oil samples on equipment. All good, 5 pieces need oil change out.
- Mechanics built crossover for turbine ejectors access.
- Attended webinar on 5 steps to cyber risk reduction.
- Attended webinar on Intern program, key to identifying compressed air energy savings.
- Vendor repaired elevator.
- Set up for Examinetics testing trailer.
- Quality sprinkler inspection performed by vendor.
- Met to discuss NERC protecting relay testing for next outage.
- Met with vendor to discuss vacuum bonding of fuel chutes with maintenance team.
- Had discussion with Siemens on the dead band changes that need to be made.
- Schedule work orders for April – 323. Completed work orders – 127.

## 11. ADMINISTRATION

### Staffing:

There were three Fuel Yard positions open as of June 30, 2016, which will not be filled immediately.

### Temporary Staffing:

There was no temporary labor on site in June.

### Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 131 invoices processed\*, 85 payments processed.  
\*June invoices will continue to be processed through July 15, 2016.
- Procurement: 74 Requisitions reviewed, 70 Purchase Orders generated.
- Overtime: 10.05% of total hours.
- 2016 annual overtime: 7.42% of total hours.

Spare Parts Inventory Value: \$**REDACTED**