

# GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



## February 2015 MONTHLY PERFORMANCE REPORT

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## 1. SUMMARY

The plant ran well in February, achieving 100% availability. There were no safety incidents or environmental events.

### **Operations:**

The unit operated for 672 hours in the month of February. GREC experienced no forced outages or derates this month.

NERC ERO Survey completed. Completed NERC Gap analysis with NAES NERC Services. Notified by FRCC that on site Audit has been cancelled. FRCC will use Self-Certification to monitor GREC in 2015.

## 2. MONTHLY PERFORMANCE DATA

2015																	
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)	49,418	55,357	0	0	0	0	0	0	0	0	0	0	104,775	0	0	0	104,775
Net Generation (MWh)	42,953	48,167	0	0	0	0	0	0	0	0	0	0	91,120	0	0	0	91,120
Solid Fuel Flow (ft3)	REDACTED																
Solid fuel Flow (Tons)	REDACTED																
Natural Gas Usage MMBTU	1,655	0	0	0	0	0	0	0	0	0	0	0	1,655	0	0	0	1,655
Avg Burn rate (Tons/nMWH)	REDACTED																
Operating hours	592	672	0	0	0	0	0	0	0	0	0	0	1,264	0	0	0	1,264
Number of trips	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
<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	130	133	0	0	0	0	0	0	0	0	0	0	263	0	0	0	263
End Backlog	73	90	0	0	0	0	0	0	0	0	0	0	163	0	0	0	163
New Wos/Comp Rec WO's	170	247	0	0	0	0	0	0	0	0	0	0	417	0	0	0	417
Total Completed W.O.s	227	290	0	0	0	0	0	0	0	0	0	0	517	0	0	0	517
Received WO's	234	331	0	0	0	0	0	0	0	0	0	0	565	0	0	0	565

### 3. PRODUCTION STATISTICS

2015																	
Production Statistics																	
Monthly Performance Data	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	QTR 1	QTR 2	QTR 3	QTR 4	YTD
<b>Other</b>																	
Ammonia Received (Gallons)	13,008	13,016	0	0	0	0	0	0	0	0	0	0	26,024	0	0	0	26,024
Ammonia Consumed	11,058	12,866	0	0	0	0	0	0	0	0	0	0	23,924	0	0	0	23,924
Sodium Bicarbonate Received (Tons)	24	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
Sodium Bicarbonate Consumed	20	25	0	0	0	0	0	0	0	0	0	0	46	0	0	0	46
Bottom Ash Generated (Tons)	230	259	0	0	0	0	0	0	0	0	0	0	489	0	0	0	489
Fly Ash Generated (Tons)	981	1,043	0	0	0	0	0	0	0	0	0	0	2,024	0	0	0	2,024
Filter Cake (Tons)	78	73	0	0	0	0	0	0	0	0	0	0	152	0	0	0	152
<b>Diesel Fuel</b>																	
Diesel Fuel Received	4,410	4,006	0	0	0	0	0	0	0	0	0	0	8,416	0	0	0	8,416
Diesel Fuel Burned	4,410	4,006	0	0	0	0	0	0	0	0	0	0	8,416	0	0	0	8,416
- 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	10,479,714	10,113,783	0	0	0	0	0	0	0	0	0	0	20,593,497	0	0	0	20,593,497
Reclaim Water Usage	13,106,824	15,488,745	0	0	0	0	0	0	0	0	0	0	28,595,569	0	0	0	28,595,569

## 4. SAFETY

### NAES Staff

	Month	Hours	First Aid	Recordable	Rec. Rate	LTA	LTA Rate	Near Miss
2014	January	6772.75	0	0	0.0	0	0.0	0
	February	6915.5	0	0	0.0	0	0.0	0
	March		0	0	0.0	0	0.0	0
	April		0	0	0.0	0	0.0	0
	May		0	0	0.0	0	0.0	0
	June		0	0	0.0	0	0.0	0
	July		0	0	0.0	0	0.0	0
	August		0	0	0.0	0	0.0	0
	September		0	0	0.0	0	0.0	0
	October		0	0	0.0	0	0.0	0
	November		0	0	0.0	0	0.0	0
	December		0	0	0.0	0	0.0	0
<b>Year to Date Total</b>		<b>13,688.35</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
2014	January	2645	0	0	0.0	0	0.0	0
	February	511	0	0	0.0	0	0.0	0
	March	0	0	0	0.0	0	0.0	0
	April	0	0	0	0.0	0	0.0	0
	May	0	0	0	0.0	0	0.0	0
	June	0	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>3,156.10</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 were no injuries reported in February.

**Near Miss Reports:**

No Near Miss Reports were completed in February.

**Training:**

34 individuals completed 68 safety courses in February.

## 5. ENGINEERING & ENVIRONMENTAL

- 2/5: ACEPD CEMS Hourly Information Q4 2014
- 2/11: Fly Ash Sampling - Chlorides & Sulfates, Destination Landfill
- 2/19: LEPC Annual Meeting
- 2/27: Tier II Submitted, Annual NOx & SO2 Allowances transferred, Stormwater
- Annual Site Evaluation complete

**Pending**

- Title V Permit Modification Application – Draft submittal 3/2
- Greenhouse Gas Report – EPA eGGRT 3/31
- 2014 Annual Stormwater Discharge Reports – FDEP 3/31
- Annual Operating Report – FDEP 4/1
- Stormwater Detention Ponds – Vegetation Removal
- Finalize SMP-4 revisions including WoodYard BMPs
- SWPPP/SPCC new hire training, CEMS training in progress
- Bottom Ash & Salt Cake hauling alternatives
- Mobile vehicular trailer tank notification/disclosure

## 6. OPERATIONS

A total of 48,166.78 nMW hours of electricity were generated during the month. The monthly Average Burn Rate was **REDACTED**

A total of 2,340 trucks were unloaded with 66,902 tons of wood received and **REDACTED**  
**REDACTED**

There were 102 Safe Work, 51 LOTO, and 5 Confined Space permits written.

## 7. WATER CHEMISTRY

- **Cooling Tower:** working with GE to monitor Cooling Tower cleanliness factor.
- **Boiler/ Make-Up Water:** Aquatech Customer Service Manager Amit Patil on site for two days to observe operation of our UF's to try to determine cause of leaking membrane vessels, and to assist in optimization of other makeup water systems.
- **Well/Reclaim Water:** Began low level sodium hypochlorite dosing of Service Water tank to eliminate microbiological activity.
- **ZDS:** Vapor compressor outlet expansion joint has developed a leak. The joint has been wrapped in order to control the leak and plans are to replace the joint in the April outage.
- **Potable water:** Completed and submitted monthly and quarterly samples, including Bacteria.

## 8. FUEL HANDLING

- Began trial of new odor control product which is sprayed in fuel at transfer point on #4 belt discharge.

## 9. TRAINING

- GPiLearn: 34 individuals completed 78 total courses in February.
- Three contractors received NAES site safety training in February.



## 10. MAINTENANCE

- Held daily safety meetings with crews.
- Worked monthly GPiLearns - all crews.
- Performed safety audits around site for the month.
- Had vendor quote scaffolding for April outage.
- Had vendor quote insulation for turbine for April outage.
- Meet with Flowserve Rep. to discuss pump performance testing.
- Had vendor quote scaffold for pump performance testing.
- Flowserve performed Pump performance testing.
- Had vendor pump out the fuel yard oiler water separator.
- Met with another vendor to quote the piping, insulation and roof removal on the turbine generator.
- Mechanics ran lines for the caustic pumps – two lines to different locations.
- Mechanics worked on # 1 dust collector plug issue.
- Mechanics changed out UF filter in water building.
- Mechanics changed out bad bearing on bottom ash bin.
- Mechanics replaced equalizing valve on top of fly ash silo.
- Mechanics replaced # 7 return idler.
- Mechanics replaced “B” ash silo vacuum blower.
- Met with vendor for scaffold at joint on vapor compressor, ZDS system.
- Repaired the ZDS vapor compressor leak at expansion joint.
- IC/E techs made adjustments on the pressure switch on the vapor compressor, ZDS system.
- IC/E techs worked on ZDS filter press. Found the PLC was faulted.
- IC/E tech found wiring fault on BFW Bentley system, ordered new wiring for repair.
- Met with Valmet & Early Construction re: header replacement during April outage.
- IC/E techs worked all routine PMs .
- Mechanical crew worked all routine PMs.
- SKF Summary Report: 250 asset readings, 1 action item, and 0 watch items.
- Scheduled work orders: 465. Completed work orders: 277.

## 11. ADMINISTRATION

### Staffing:

There was one fuel yard position open as of February 28, 2015.

### Temporary Staffing:

There was no temporary labor on site in February.

### February Statistics:

- Payroll: 80 Payroll records processed
- Accounts Payable: 207 invoices processed\*, 137 payments processed  
\*February Invoices will continue to be processed through March 10, 2015.
- Procurement: 132 Requisitions reviewed, 130 Purchase Orders generated
- February Overtime: 12.39% of total hours
- 2015 annual overtime: 18.75 % of total hours

Inventory Value: \$ **REDACTED**