

GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



February 2017 MONTHLY PERFORMANCE REPORT

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1. SUMMARY

The plant ran for about 6 days in February. The startup and run went well.

There were no safety or environmental issues during the month. We hired one new employee during the month.

Operations:

GREC began February dispatched to Reserve Shutdown by GRU. GREC was called to start-up and ran for 150 hours before being dispatched back to Reserve Shutdown.

2. MONTHLY PERFORMANCE DATA

2017																	
PLANT SUMMARY																	
Monthly Performance Data	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	QTR 1	QTR 2	QTR 3	QTR 4	YTD
Operations																	
Gross Generation (MWh)	30,255	12,722	0	0	0	0	0	0	0	0	0	0	42,978	0	0	0	42,978
Net Generation (MWh)	26,836	11,078	0	0	0	0	0	0	0	0	0	0	37,915	0	0	0	37,915
Solid Fuel Flow (ft3)																	
Solid fuel Flow (Tons)																	
Natural Gas Usage MMBTU	2,081	2,485	0	0	0	0	0	0	0	0	0	0	4,566	0	0	0	4,566
Avg Burn rate (Tons/nMWH)																	
Operating hours	313	151	0	0	0	0	0	0	0	0	0	0	464	0	0	0	464
Number of trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety																	
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	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Near Miss Incidents	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maintenance: WO Summary																	
Start Backlog	401	441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Backlog	443	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Wos/Comp Rec WO's	61	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Completed W.O.s	211	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Received WO's	253	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3. PRODUCTION STATISTICS

2017																	
Production Statistics	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	QTR 1	QTR 2	QTR 3	QTR 4	YTD
Monthly Performance Data																	
Other																	
Ammonia Received (Gallons)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia Consumed	2,850	1,650	0	0	0	0	0	0	0	0	0	0	4,500	0	0	0	4,500
Sodium Bicarbonate Received (Tons)	23	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	23
Sodium Bicarbonate Consumed	8	6	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14
Bottom Ash Generated (Tons)	63	27	0	0	0	0	0	0	0	0	0	0	90	0	0	0	90
Fly Ash Generated (Tons)	538	355	0	0	0	0	0	0	0	0	0	0	893	0	0	0	893
Filter Cake (Tons)	27	40	0	0	0	0	0	0	0	0	0	0	67	0	0	0	67
Diesel Fuel																	
Diesel Fuel Received	3,468	566	0	0	0	0	0	0	0	0	0	0	4,033	0	0	0	4,033
Diesel Fuel Burned	3,468	566	0	0	0	0	0	0	0	0	0	0	4,033	0	0	0	4,033
- 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
Water																	
Process Water Usage	5,818,387	2,620,883	0	0	0	0	0	0	0	0	0	0	8,439,270	0	0	0	8,439,270
Reclaim Water Usage	7,449,990	4,055,106	0	0	0	0	0	0	0	0	0	0	11,505,096	0	0	0	11,505,096

4. SAFETY

NAES Staff

	Month	Hours	First Aid	Recordable	Rec. Rate	LTA	LTA Rate	Near Miss
	January	5356.2	1	0	0.0	0	0.0	0
	February	5902.25	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
Year to Date Total		11,258.45	1.00	0.00	0.00	0.00	0.00	0.00

Contractors

	Month	Hours	First Aid	Recordable	Rec. Rate	LTA	LTA Rate	Near Miss
	January	172	0	0	0.0	0	0.0	0
	February	191	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
Year to Date Total		363.00	0.00	0.00	0.00	0.00	0.00	0.00

Accidents:

There were no accidents in February.

Near Miss Reports:

No Near Miss Reports were completed in February.

Training:

36 individuals completed 108 safety courses in February.

5. ENGINEERING & ENVIRONMENTAL

- 2/6: ACEPD 4th Quarter Emissions Detail Submitted
- 2/13: ACEPD Aboveground Storage Tank Inspection, FDEP & EPA RATA & Compliance Notifications/Protocol Submittals
- 2/23: EIA 923 Submitted
- 2/28: Tier 2 Right to Know & Annual TV Statement of Compliance (SOC) Submitted

Pending:

- GreenHouse Gas (GHG) – 3/31
- Annual Operating Report (AOR) – 4/1

6. OPERATIONS

GREC was called to start-up and ran for 150 hours before being dispatched back to Reserve Shutdown. There were 11,078.34 nMWs generated during the month of January.

A total of [REDACTED] were unloaded with [REDACTED] tons of wood received.

There were 91 Safe Work Permits, 46 LOTOs, and 10 Confined Space Permit issued.

7. WATER CHEMISTRY

- **Cooling Tower:** Started up normal chlorine injection system at plant start-up
- **Boiler/ Make-Up Water:** Water treatment systems were run periodically throughout the month to maintain reliability.
- **Well/Reclaim Water:** Well water and reclaim systems were operated during the month.
- **ZDS:** System was seeded and put in service. The system remains in standby.
- **Potable water:** Completed and submitted monthly and quarterly samples, including Bacteria. Completed and submitted the Florida DEP Monthly Operation Report for PWS.

8. FUEL HANDLING

- Received ■■■ trucks of wood fuel.
- Fuel receiving and boiler feed systems ran with no issues.

9. TRAINING

- GPiLearn: 36 individuals completed 144 total courses in February.
- Sixteen contractors received NAES site safety training in February.

10. MAINTENANCE

- Attended weekly MOC meetings.
- Attended weekly safety meetings.
- IC/E techs worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Met with insulation vendor for outage.
- NAES O/M Conference call, planning roundtable.
- Vendor changed tires on Wagner.
- Atlas Copco performed trouble shooting of heating issue with 'A' compressor.
- Scaffolding vendor pre-walk down job for ash silo.
- Ordered 125' man lift for startup.
- IC/E recalibrated belt scale # 1.
- Replaced outboard thrust bearing thermocouple "A' Boiler Feed Water Pump.
- Installed potable water eye wash station on fuel trailer.
- Grounded sand feed conveyor.
- Recalibrated the seal water pressure switch in ZDS area.
- Repaired the water intrusion at front door of admin building.
- Pulled dropped bag out of ash silo bottom side.
- IC/E Reset auto reclaimer encoders.
- Completed safety ticket on eyewash station, heater not working.
- Weekly Fuel call.
- Vendor hoist inspection.
- Vendor worked on repair reman Wagner.
- IC/E worked NERC ticket.
- Opened #1-disc screen & hog for inspection after fire. Inspected all belts from tipper to live yard. All in good condition.
- Completed cooling tower fan inspections.
- Had spool built for dry side of ash unloader.
- Valmet came in for quarterly site visit on DCS
- Checked oil seals on stacker reclaimer.
- Performed trouble shooting of active alarm fault on turbine extraction non-return valve. 3
- Quarterly and annual fire Inspection completed.
- Scheduled work orders for January - 441 / Completed work orders - 229

11. ADMINISTRATION

Staffing:

The Warehouse Assistant position was filled in January. Two Fuel Yard Operators were promoted to the Water Treatment Operator and Auxiliary Plant Operator positions. Two new Fuel Yard Operators were recruited and committed to a start date of March 6. The remaining 3 Fuel Yard Operator positions will not be filled immediately.

Temporary Staffing:

There was no temporary labor on site in February.

Statistics:

- Payroll: 71 Payroll records processed.
- Accounts Payable: 151 invoices processed*, 112 payments processed.
*February invoices will continue to be processed through March 15.
- Procurement: 86 Requisitions reviewed, 86 Purchase Orders generated.
- Overtime: 10.34% of total hours.
- 2017 annual overtime: 15.04% of total hours.

Spare Parts Inventory Value: \$ ██████████

