

GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



May 2016 MONTHLY PERFORMANCE REPORT

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1. SUMMARY

The plant was called on by GRU on May 25 to perform a second Winter Season capacity demonstration test. The plant came up and ran very well, successfully completing the test with no problems. There were no environmental or safety issues. We did receive a final determination of Compliance without Enforcement from FRCC on the March Spot Check findings. This was a favorable outcome.

Operations:

GREC remained in Reserve Shutdown for most of the month of May. The unit was called to start-up and perform a 6 hour Dependable Capacity Test and was on line and available for 19 hrs. GREC was available for all 744 hours of the month.

The Dependable capability test was successful and GREC took the opportunity to perform our Real & Reactive Power Verification. Upon completion of the test and verification GRU placed GREC back on Reserve Shutdown. The boiler and main steam lines were returned to 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																	
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)	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
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	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
Maintenance: WO Summary																	
Start Backlog	206	111	109	255	256	0	0	0	0	0	0	0	0	0	0	0	0
End Backlog	110	91	93	116	163	0	0	0	0	0	0	0	0	0	0	0	0
New Wos/Comp Rec WO's	18	20	32	26	36	0	0	0	0	0	0	0	0	0	0	0	0
Total Completed W.O.s	114	157	157	139	152	0	0	0	0	0	0	0	0	0	0	0	0
Received WO's	40	198	188	184	59	0	0	0	0	0	0	0	0	0	0	0	0

3. PRODUCTION STATISTICS

2016																	
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
Other																	
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	150	0	0	0	0	0	0	0	0	150	0	0	150
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	3	0	0	0	0	0	0	0	0	3	0	0	3
Bottom Ash Generated (Tons)	0	0	0	0	9	0	0	0	0	0	0	0	9	9	0	0	18
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
Diesel Fuel																	
Diesel Fuel Received	0	0	845	3,550	985	0	0	0	0	0	0	0	845	4,536	0	0	5,381
Diesel Fuel Burned	0	0	845	3,550	985	0	0	0	0	0	0	0	845	4,536	0	0	5,381
- 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	256,162	80,763	2,037,975	16,664	1,207,276	0	0	0	0	0	0	0	2,374,900	1,223,940	0	0	3,598,840
Reclaim Water Usage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	0.00	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
Year to Date Total	31,555.25	0.00	0.00	0.00	0.00	0.00	0.00

Contractors

Month	Hours	First Aid	Recordable	Rec. Rate	LTA	LTA Rate	Near Miss
January	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	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	667.00	0.00	0.00	0.00	0.00	0.00	0.00

Accidents:

There were no accidents in May.

Near Miss Reports:

No Near Miss Reports were completed in May.

Training:

36 individuals completed 75 safety courses in May.

5. ENGINEERING & ENVIRONMENTAL

5/1: NOX Ozone Season – September 30th

6. OPERATIONS

A total of 1,799.59 nMW was generated during the month.

A total of 129 trucks were unloaded with 3,349.66 tons of wood received.

There were a total of 87 Safe Work Permits, 43 LOTOs, and 13 Confined Space Permit issued.

GREC was directed by GRU to start-up and run at full load for a 6 hour Dependable Capacity test. The test was successfully completed. GREC also completed the NERC-MOD-025 required Real and Reactive Power Verification.

FRCC has completed its enforcement review of GREC's Spot Check results. FRCC has provided notice that it will not pursue an enforcement action and has issued a Compliance Exception.

7. WATER CHEMISTRY

- **Cooling Tower:** Continue to recirculate CT basin with small sump pump. A Biocide injection system has been installed in the Circ. Water chemical building to help minimize handling of this chemical.
- **Boiler/ Make-Up Water:** Boiler water chemistry remained within specified tolerances during the unit start-up indicating lay-up preservation methods are working well.
- **Well/Reclaim Water:** Reclaim water has been secured and well water use as been curtailed while in Reserve Shutdown.
- **ZDS:** ZDS systems were filled with water and the system started up in order to operationally check all systems. One line was found to be plugged. The plugged line has been hydro-blasted clear.
- **Potable water:** Completed and submitted monthly and quarterly samples, including Bacteria.

8. FUEL HANDLING

- Received 129 trucks with mostly woodchips prior to and during dependable capacity test.
- PMs performed on belts and machines.
- Turning over fuel yard piles to prevent hot spots.

9. TRAINING

- GPiLearn: 36 individuals completed 150 total courses in May.
- 2 contractors received NAES site safety training in May.

10. MAINTENANCE

- All maintenance worked on GPiLearn training.
- Attended weekly safety meeting with crews.
- Attended weekly MOC meeting.
- Attended safety committee safety cookout with all.
- Attended O/M Manager's Conference.
- IC/E worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Mechanics worked on cement pours.
- IC/E worked with Valmet on cleaning up alarms in the DCS.
- Mechanics took measurements for stairway between boiler inland and turbine room roof. Completed SafeStart Training lesson #4, all maintenance employees.
- Vendor worked on both Wagners. New Wagner had 500 hr. service.
- Attended webinar on South-Tek Systems nitrogen gas generator.
- Quarterly check - luffing motor brake clearance inspection.
- UF "B" Inlet, 5-23-2016 replaced valve and reset close position.
- Fuel yard - Dust ring hose was repaired.
- IC/E Tech, assisted with troubleshooting FileMaker Pro.
- IC/E repaired small air leaks in ZDS area.
- IC/E replaced probe and gas bottle on SCR NOx Analyzer system.
- IC/E replaced GFI in cabinet for security cameras.
- 5/25/16: Called to start up 6 hour capacity test for GRU.
- IC/E Tech repaired the issue with the luffing on the auto reclaimer.
- Mechanics repaired the swivel on the fuel yard dust ring.
- Met with 2 different vendors about nitrogen gas generators.
- Scheduled work orders for May: 315 Completed work orders: 152

11. ADMINISTRATION

Staffing:

There were three Fuel Yard positions open as of May 31, 2016, which will not be filled immediately.

Temporary Staffing:

There was no temporary labor on site in May

Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 109 invoices processed*, 88 payments processed.
*May invoices will continue to be processed through June 15, 2016.
- Procurement: 59 Requisitions reviewed, 59 Purchase Orders generated.
- May Overtime: 5.01% of total hours.
- 2016 annual overtime: 6.97% of total hours.

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