

GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



July 2016 MONTHLY PERFORMANCE REPORT

TABLE OF CONTENTS

1. SUMMARY.....	3
2. MONTHLY PERFORMANCE DATA.....	4
3. PRODUCTION STATISTICS.....	5
4. SAFETY.....	6
5. ENGINEERING & ENVIRONMENTAL.....	7
6. OPERATIONS.....	7
7. WATER CHEMISTRY.....	8
8. FUEL HANDLING.....	8
9. TRAINING.....	8
10. MAINTENANCE.....	9
11. ADMINISTRATION.....	10

1. SUMMARY

The plant was on reserve shutdown all of July. There were no safety or environmental incidents.

Operations:

GREC remained in Reserve Shutdown for the month of July. The unit has been available for 744 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
Monthly Performance Data																	
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	127	126	0	0	0	0	0	0	0	0	0	0
End Backlog	110	91	93	116	163	151	176	0	0	0	0	0	0	0	0	0	0
New Wos/Comp Rec WO's	18	20	32	26	36	140	127	0	0	0	0	0	0	0	0	0	0
Total Completed W.O.s	114	157	157	139	152	172	166	0	0	0	0	0	0	0	0	0	0
Received WO's	40	198	188	184	59	196	136	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	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
Diesel Fuel																	
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
Water																	
Process Water Usage	256,162	80,763	2,037,975	16,664	1,207,276	78,329	93,203	0	0	0	0	0	2,374,900	1,302,269	93,203	0	3,770,372
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	5632.50	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		42,550.75	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	188	0	0	0.0	0	0.0	0
	July	78	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		933.00	0.00	0.00	0.00	0.00	0.00	0.00

Accidents:

There were no accidents in July.

Near Miss Reports:

No Near Miss Reports were completed in July.

Training:

34 individuals completed 72 safety courses in July.

5. ENGINEERING & ENVIRONMENTAL

- NOX Ozone Season – September 30th
- 7/29: 2nd Quarter EER, EDR & Semi-Annual TV, DAR Reports Submitted

6. OPERATIONS

There was no electrical generation during the month.

A total of 23 trucks were unloaded with 563.47 tons of wood received.

There were a total of 81 Safe Work Permits, 44 LOTOs, and 22 Confined Space Permit issued.

Turbine conservation- Changed from continuously running turning gear to running TG LO once a week and rotating shaft (as per OEM.)

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

9. TRAINING

- GPiLearn: 34 individuals completed 100 total courses in July.
- No contractors received NAES site safety training in July.

10. MAINTENANCE

- Completed GPi-Learn training.
- Attended weekly safety meeting with crews.
- Attended weekly MOC meeting.
- IC/E worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Valmet worked on backup drives, Metso DCS.
- Performed daily scaffold inspections
- Changed out hydraulic hose on the Wagner reman.
- Vendor repaired security cameras #3, #4 and #13.
- Performed troubleshooting with fire panel alarms.
- Worked on project to install nitrogen generator.
- Cleaned all AC / Coils and changed filters
- Repaired stack lighting.
- Checked all RTD on listed equipment.
- Pulled monthly oil samples.
- Worked on project to replace scaffolds.
- Condenser inspection PM completed.
- Worked with vendor to come up with a plan for painting the cooling tower decking.
- Vendor performed monthly elevator inspection.
- State inspector checked elevators.
- Scheduled work orders for July: 302. Completed work orders 127.

11. ADMINISTRATION

Staffing:

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

Temporary Staffing:

There was no temporary labor on site in July.

Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 140 invoices processed*, 91 payments processed.
*July invoices will continue to be processed through August 15, 2016.
- Procurement: 66 Requisitions reviewed, 66 Purchase Orders generated.
- Overtime: 8.5% of total hours.
- 2016 annual overtime: 7.56% of total hours.

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