GAINESVILLE RENEWABLE ENERGY CENTER Operated by



August 2016 MONTHLY PERFORMANCE REPORT

Gainesville Renewable Energy Center – Monthly Performance Report

Page 1

CONFIDENTIAL

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
	FUEL HANDLING	
9.	TRAINING	8
	MAINTENANCE	
11.	ADMINISTRATION	10

1. SUMMARY

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

Operations:

GREC remained in Reserve Shutdown for the month of August. 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.

CONFIDENTIAL

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)	RE	DACTED															
Solid fuel Flow (Tons)	RE	DACTED															
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)	REDACT	ED															
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	137	0	0	0	0	0	0	0	0	0
End Backlog	110	91	93	116	163	151	176	131	0	0	0	0	0	0	0	0	0
New Wos/Comp Rec WO's	18	20	32	26	36	140	127	143	0	0	0	0	0	0	0	0	0
Total Completed W.O.s	114	157	157	139	152	172	166	157	0	0	0	0	0	0	0	0	0
Received WO's	40	198	188	184	59	196	136	194	0	0	0	0	0	0	0	0	0

CONFIDENTIAL

3. PRODUCTION STATISTICS

							20	016									
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													0	0	0	0	0
Process Water Usage	256,162	80,763	2,037,975	16,664	1,207,276	78,329	93,203	88,328	0	0	0	0	2,374,900	1,302,269	181,531	0	3,858,700
Reclaim Water Usage	0	0	0	0	0	0	0	0	0	0	0	0	0	78,329	0	0	78,329

CONFIDENTIAL

4. SAFETY

	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			
	Мау	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	5786.75	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		48,337.50	0.00	0.00	0.00	0.00	0.00	0.00			

NAES Staff

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
	Мау	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	82	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		1,015.00	0.00	0.00	0.00	0.00	0.00	0.00

Accidents:

There were no accidents in August.

Near Miss Reports:

No Near Miss Reports were completed in August.

Training:

38 individuals completed 85 safety courses in August.

5. ENGINEERING & ENVIRONMENTAL

- 8/5: ACEPD 2nd Quarter Submittal
- FDEP AOR Clarifications
- NOX Ozone Season September 30th

6. OPERATIONS

There was no electrical generation during the month.

One truck was unloaded with 22.3 tons of wood received.

There were a total of 106 Safe Work Permits, 44 LOTOs, and 5 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. Chlorine skids have been moved adjacent to bulk tank in order to minimize use of totes.
- 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. System is filled and run with clean water once per month to maintain reliability.
- **Potable water:** Completed and submitted monthly and quarterly samples, including Bacteria, Primary Inorganic Contaminates, and Secondary Disinfection By-products.

8. FUEL HANDLING

- Received 1 truck of wood fuel.
- PMs performed on belts and machines.
- Began performing grating inspections
- Performing plant mowing.

9. TRAINING

- GPiLearn: 38 individuals completed 89 total courses in August.
- One contractor received NAES site safety training in August.



10. MAINTENANCE

- All maintenance employees worked on GPiLearn training.
- Attended weekly safety meetings.
- Attended weekly MOC meetings.
- IC/E techs worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Valmet worked on backup drives, Metso DCS.
- Worked on nitrogen generator installation.
- Cleaned all AC coils, and changed filters.
- Pulled monthly oil samples.
- IC/E techs worked on breaker logic tracing and troubleshooting.
- IC/E techs worked on fuel yard control system (will not reset).
- Mechanics worked on north manway door gasket (leaking on condenser water box North side).
- Attended Brush Holder Shaft Grounding Meeting with NAES / CUTSFORTH.
- Repaired exit sign.
- Had yearly backup generator load tested and serviced.
- Performed PMs on North MCC/PDC room.
- Checked coupling on #1 rotary feeder.
- Repaired # 1 and #3 roll up door at the truck tipper.
- Completed hurricane preparedness list.
- Had vendor on site to evaluate ZDS system corrosion / painting issues.
- Repaired damaged switchgear disconnect in North PDC.
- Repaired 3rd pass ash conveyor flights.
- Replaced sensor on reclaimer luffing encoder.
- Filter press work orders for repairs completed.
- Scheduled work orders for August: 188. Completed work orders: 143.



11. ADMINISTRATION

Staffing:

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

Temporary Staffing:

There was no temporary labor on site in August.

Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 131 invoices processed*, 82 payments processed.
 *August invoices will continue to be processed through September 15, 2016.
- Procurement: 68 Requisitions reviewed, 68 Purchase Orders generated.
- Overtime: 5.57% of total hours.
- 2016 annual overtime: 7.23% of total hours.

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