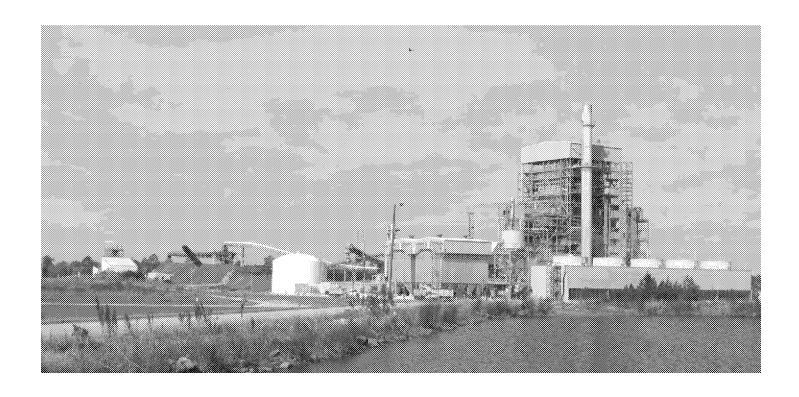
GAINESVILLE RENEWABLE ENERGY CENTER Operated by ZNAES



October 2016 MONTHLY PERFORMANCE REPORT

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1. SUMMARY

The plant began the month of October on line, and ran until 10/10. It ran well during that period. There were no safety or environmental issues during October.

Operations:

GREC ran through October 10th when the unit was once again dispatched off line into Reserve Shutdown. The unit operated for 238 hours for the month.

While operating, the unit experienced one derate. The derate occurred when a Flue Gas Recirculation pressure sensor gave a bad reading and the FGR Fan damper shut causing an upset. The sensing line was blown down and the issue was resolved.

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	1,559	21,086	0	0	2,095	2,044	1,559	21,086	26,784
Net Generation (MWh)	0	0	1,835	0	1,800	0	0	0	1,356	18,531	0	0	1,835	1,800	1,356	18,531	23,521
Solid Fuel Flow (ft3)			:			:			:		;						
Solid fuel Flow (Tons)																	
Natural Gas Usage MMBTU	0	0	3,059	0	1,792	0	0	0	2,729	0	0	0	3,059	1,792	2,729	0	7,580
Avg Burn rate (Tons/nMWH)											:						
Operating hours	0	0	17	0	19	0	0	0	14	238	0	0	17	19	14	238	288
Number of trips	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	2
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	237	275	0	0	0	0	0	0	0
End Backlog	110	91	93	116	163	151	176	131	320	374	0	0	0			0	0
New Wos/Comp Rec WO's	18	20	32	26	36	140	127	143	59	63	0	0	0			0	0
Total Completed W.O.s	114	157	157	139	152	172	166	157	139	150	0	0	0			0	0
Received WO's	40	198	188	184	59	196	136	194	222	249	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	·	oຶ	o	0	
Ammonia Consumed	0	0	0	0	150	150	0	0	150	2,550	0	C	o″ o″	300 ້	150	2,550	3,00
Sodium Bicarbonate Received (Tons)	0	0	0	0	0	0	0	0	0	0	0	C	, ,	o r	0	. 0	
Sodium Bicarbonate Consumed	0	0	0	0	3	0	0	0	6	5	0	C	, 0	3	6	5	1
Bottom Ash Generated (Tons)	0	0	0	0	9	0	0	0	9	36	0	C	,	9	9	36	5
Fly Ash Generated (Tons)	43	25	0	0	0	105	55	53	0	257	0	C	° 68°	105	108	257	53
Filter Cake (Tons)	0	0	0	0	0	0	0	0	0	33	0	C	າ໌ ດ <u>໌</u>	o [*]	o	33	3
Diesel Fuel																	
Diesel Fuel Received	0	0	845	3,550	985	793	0	0	860	3,328	0	C	845	5,328	860	3,328	10,36
Diesel Fuel Bumed	0	0	845	3,550	985	793	0	0	860	3,328	0	C	845	5,328	860	3,328	10,36
- Heavy Equipment	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	
- Boiler	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	
Diesel Fuel Ending Inventory	0	0	0	0	0	0	0	0	0	0	0	C) 0	0	0	0	
Water													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	1,073,802	5,369,952	0	C	2,374,900	1,302,269	1,255,333	5,369,952	10,302,45
Reclaim Water Usage	0	0	0	0	0	0	0	0	244,852	5,535,707	0	C	0	0	244,852	5,535,707	5,780,55

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	5786.75	0	0	0.0	0	0.0	0
	September	8550.00	0	0	0.0	0	0.0	0
	October	6552.25	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	•	63,439.75	0.00	0.00	00.00	00.0	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	82	0	0	G C	0	0.0	0
	September	78	0	0	0.0	0	0.0	0
	October	81	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	Э	1,174.00	0.00	0.00	00.0	0.00	00.00	0.00

Accidents:

There were no accidents in October.

Near Miss Reports:

No Near Miss Reports were completed in October.

Training:

38 individuals completed 84 safety courses in October.

5. ENGINEERING & ENVIRONMENTAL

- 10/3: Process Water Overflow reported
- 10/19: Activated Carbon applied to Woodyard Odor Control
- 10/26: EIA 923 submitted
- 10/31: 3rd Quarter EER & EDR reports submitted to FDEP & EPA, CSPP submittal to EPA

6. OPERATIONS

GREC ran for 10 days in October to meet GRU's dispatch order. Subsequently, System Control requested GREC return to Reserve Shutdown status after running for 238 hours. GREC experienced one Derate when a FGR pressure transmitter reading failed and caused the FGR damper to shut and PA damper to open. The Controlroom Operator took manual control of the damper and reduced load to stabilize the plant.

There was 18,530.73 nMW generation during the month.

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

There was a total of 110 Safe Work Permits, 43 LOTOs, and 6 Confined Space Permit issued.

7. WATER CHEMISTRY

- Cooling Tower: Started up normal chlorine injection system at plant start-up
- **Boiler/ Make-Up Water**: A film forming amine was added to our chemistry to aid in pressure system and Turbine Preservation.
- **Well/Reclaim Water:** Both Reclaim and Well water systems were operated during the month.
- **ZDS:** System was started up and ran well. ZDS was put in standby for a week after the plant was shut down, and then flushed and drained.
- Potable water: Completed and submitted monthly and quarterly samples, including Bacteria.

8. FUEL HANDLING

- Received trucks of wood fuel.
- Fuel receiving and boiler feed systems ran with no issues.
- Completed grating inspections
- Both Wagner chip dozers maintenance and repairs completed and are up and running.

9. TRAINING

- GPiLearn: 38 individuals completed 84 total courses in October.
- Five contractors received NAES site safety training in October.

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 and training.
- Pulled monthly oil samples.
- IC/E techs worked on fuel yard control system (will not reset).
- Performed PMs on North MCC/PDC room.
- Repaired # 1, # 2 and #3 roll up door at the truck tipper.
- Had vendor on site to evaluate ZDS system corrosion / painting issues.
- Replaced sensor on reclaimer luffing encoder.
- IC/E techs completed 8-month battery PM.
- Filter press work orders for repairs completed.
- Completed stairs at filter press.
- Had vendor complete repairs to both Wagners.
- Had mechanics replace 3 return idlers on belt #7.
- IC/E return heaters on all eye wash stations back on.
- IC/E techs checked heaters in water building.
- IC/E working on all 3 Bay doors, replacing breaks.
- Met with 3 different vendors.
- Weld repaired leak on crystallizer tank line.
- Repaired hydraulic oil hose on FGR lube system.
- Changed all bags on ash silo vent dust system.
- Started Arc-Flash training for all NAES employees.
- Started wash water line in fuel yard tower # 1.
- Scheduled work orders for October: 275. Completed work orders: 150.

11. ADMINISTRATION

Staffing:

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

Temporary Staffing:

There was no temporary labor on site in October.

Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 148 invoices processed*, 77 payments processed. *October invoices will continue to be processed through November, 2016.
- Procurement: 87 Requisitions reviewed, 87 Purchase Orders generated.
- Overtime: 14.69% of total hours.
- 2016 annual overtime: 8.03% of total hours.

Spare Parts Inventory Value: \$

Energy Station – Monthly Performance Report
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