

GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



June 2017 MONTHLY PERFORMANCE REPORT

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1. SUMMARY

The plant was on Reserve Shutdown for all of June. Russell Abel has transferred to a NAES Corporate position. Steven Marsh has assumed Plant Manager responsibilities. There were no safety or environmental issues during the month.

Operations:

GREC remained in Reserve Shutdown for the month of June. The Unit was available for all 720 hours of the month.

2. MONTHLY PERFORMANCE DATA

2017																	
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)	30,255	12,722	39,577	71,532	42,301	0	0	0	0	0	0	0	82,555	113,833	0	0	196,388
Net Generation (MWh)	26,836	11,078	35,131	63,909	37,847	0	0	0	0	0	0	0	73,045	101,756	0	0	174,802
Solid Fuel Flow (ft3)																	
Solid fuel Flow (Tons)																	
Natural Gas Usage MMBTU	2,081	2,485	2,554	0	1,697	0	0	0	0	0	0	0	7,120	1,697	0	0	8,817
Avg Burn rate (Tons/nMWH)																	
Operating hours	313	151	341	720	448	0	0	0	0	0	0	0	805	1,168	0	0	1,973
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	1	0	0	0	0	0	0	1	1	0	0	2
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	293	341	220	329	0	0	0	0	0	0	0	0	0	0	0
End Backlog	443	270	171	221	115	420	0	0	0	0	0	0	0	0	0	0	0
New Wos/Comp Rec WO's	61	41	47	63	139	41	0	0	0	0	0	0	0	0	0	0	0
Total Completed W.O.s	211	212	169	183	244	130	0	0	0	0	0	0	0	0	0	0	0
Received WO's	253	212	229	102	188	221	0	0	0	0	0	0	0	0	0	0	0

3. PRODUCTION STATISTICS

2017																	
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	6,419	12,869	6,445	0	0	0	0	0	0	0	6,419	19,315	0	0	25,733
Ammonia Consumed	2,850	2,100	6,569	11,669	8,095	0	0	0	0	0	0	0	11,519	19,765	0	0	31,283
Sodium Bicarbonate Received (Tons)	23	0	24	24	0	0	0	0	0	0	0	0	46	24	0	0	70
Sodium Bicarbonate Consumed	8	6	16	28	17	0	0	0	0	0	0	0	30	45	0	0	75
Bottom Ash Generated (Tons)	63	27	90	180	416	9	0	0	0	0	0	0	180	605	0	0	785
Fly Ash Generated (Tons)	538	355	613	1,056	1,027	24	0	0	0	0	0	0	1,506	2,106	0	0	3,613
Filter Cake (Tons)	27	40	43	66	86	0	0	0	0	0	0	0	109	152	0	0	262
Diesel Fuel																	
Diesel Fuel Received	3,468	566	2,107	3,067	3,321	0	0	0	0	0	0	0	6,140	6,388	0	0	12,528
Diesel Fuel Burned	3,468	566	2,107	3,067	3,321	0	0	0	0	0	0	0	6,140	6,388	0	0	12,528
- 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	9,119,877	18,981,962	11,887,997	531,444	0	0	0	0	0	0	17,559,147	31,401,403	0	0	48,960,550
Reclaim Water Usage	7,449,990	4,055,106	9,644,118	15,948,957	10,712,918	0	0	0	0	0	0	0	21,149,214	26,661,875	0	0	47,811,089

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	8948.5	0	0	0.0	0	0.0	0
	April	6596.25	0	0	0.0	0	0.0	0
	May	6896.25	0	0	0.0	0	0.0	0
	June	6115.25	1	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		39,814.70	2.00	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	115	0	0	0.0	0	0.0	0
	April	44	0	0	0.0	0	0.0	0
	May	1962	0	0	0.0	0	0.0	0
	June	14	0	0	0.0	0	0.0	0
	July	4	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		2,502.00	0.00	0.00	0.00	0.00	0.00	0.00

Accidents:

No accidents were reported in June. There was one first aid incident involving an insect bite. Nurse line was consulted and recommended self-care.

Near Miss Reports:

No near miss reports were completed in June.

Training:

36 individuals completed 170 safety courses in June.

5. ENGINEERING & ENVIRONMENTAL

- 6/26: EIA 923 Submitted

6. OPERATIONS

The boiler and main steam lines are in a dry lay-up with a nitrogen purge as a means of preservation to prevent corrosion. The DA/Feedwater tank continues to be in a wet lay-up with a nitrogen cap and Turbine/Condenser are being supplied with a dehumidified air purge.

There was a total of 70 Safe Work Permits, 26 LOTOs issued for month of June.

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:** Well water used for system flush to maintain readiness. No reclaim water used this month.
- **ZDS:** ZDS system is drained.
- **Potable water:** Completed and submitted monthly and quarterly samples, including testing for lead & copper.

8. FUEL HANDLING

- Received █ trucks of wood.
- Continued preventive maintenance on all equipment and weekly exercise of equipment to maintain plant readiness.

9. TRAINING

- GPiLearn: 36 individuals completed 383 total courses in June.
- 3 contractors received NAES site safety training in June.

10. MAINTENANCE

- Attended weekly safety meetings.
- All maintenance employees worked on GPiLearn lessons.
- IC/E techs worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Mechanics replaced fill in cooling tower cell #1, and new strapping.
- IC/E repaired the eye wash station on the ammonia system.
- Mechanics replaced training rollers on belt #9.
- Mechanics replaced training rollers on belt #5.
- IC/E worked ticket on DCS alarms clean up.
- IC/E worked ticket on remote sump pump stations in PDCs.
- IC/E investigated odor control pump in fuel yard.
- IC/E replaced lamp covers under bag house.
- Mechanics ordered and placed chain pull for valve SHP-VA-1114-01.
- Mechanics replaced lube motor on BFW pump, bad bearing.
- Mechanics inspected the ash blower on silo.
- Mechanics worked ticket to repair oil leak on manual turning gear.
- IC/E worked ticket on FWS battery.
- Mechanics & IC/E Techs worked ticket on demin. valve that was sticking.
- Mechanics worked ticket to pull and replace starter on gator.
- IC/E investigated issue with sump pump in tipper tunnel.
- Mechanics worked ticket on stacker/reclaimer luffing break, both sides.
- Mechanics and IC/E Techs changed motor on reclaimer.
- Mechanics worked on sand line project fill line.
- Valmet came in to look over all alarms and DCS issues.
- Vendor testing of BFW motors with IC/E support.
- Scheduled work orders for June – 329. Completed work orders – 130.

11. ADMINISTRATION

Staffing:

There were three Fuel Yard Operator positions open as of June 30, which will not be filled immediately. The Plant Manager transferred to a corporate position at NAES, the Operations Manager was promoted to Plant Manager and the Maintenance Planner was promoted to Operations Manager. The Maintenance Planner position will not be filled at this time. A Maintenance Technician position also opened in June, but the position is not being filled at this time.

Temporary Staffing:

There was no temporary labor on site in June.

Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 133 invoices processed*, 99 payments processed.
*June invoices will continue to be processed through July 14th.
- Procurement: 94 Requisitions reviewed, 93 Purchase Orders generated.
- Overtime: 15.09% of total hours.
- 2017 annual overtime: 14.04% of total hours.

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