

GAINESVILLE RENEWABLE ENERGY CENTER

Operated by **NAES**



March 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 called on to perform a winter season capacity test on March 6, which was completed successfully on March 10. The delay was caused by a ruptured expansion joint. There were no environmental or safety incidents. FRCC conducted a Spot Check audit of GREC's NERC records. They found two non-compliance issues that are under review by FRCC for classification as potential violations. They are both administrative in nature, and are not reliability related. We will receive a determination in April.

Operations:

GREC was called to start-up for a Winter Season Dependable Capacity test. The start-up went very well, but while holding at full load waiting for the test start time a Primary Air expansion joint failed and the unit tripped off-line. The unit was in Forced Outage for approximately 68 hours. The second start-up also went very well and the dependable Capacity test was completed successfully. Upon completion of the test GRU placed GREC back on Reserve Shutdown. The plant remained in Reserve Shutdown for the remainder of the month.

The boiler and main steam lines were returned to a dry lay-up with a nitrogen cap as a means of preservation to prevent corrosion. The DA/ Feedwater tank continue to be in a wet lay-up with a nitrogen cap and the turbine/condenser are being supplied with a dehumidified air purge. We continue to receive dry fuel (to be covered) and pellet fuel.

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	0	0	0	0	0	0	0	0	2,095	0	0	0	2,095
Net Generation (MWh)	0	0	1,835	0	0	0	0	0	0	0	0	0	1,835	0	0	0	1,835
Solid Fuel Flow (ft3)		REDACTED															
Solid fuel Flow (Tons)		REDACTED															
Natural Gas Usage MMBTU	0	0	3,059	0	0	0	0	0	0	0	0	0	3,059	0	0	0	3,059
Avg Burn rate (Tons/nMWH)		REDACTED															
Operating hours	0	0	17	0	0	0	0	0	0	0	0	0	17	0	0	0	17
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Backlog	110	91	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Wos/Comp Rec WO's	18	20	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Completed W.O.s	114	157	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Received WO's	40	198	188	0	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Fuel Burned	0	0	845	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 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	0	0	0	0	0	0	0	0	0	2,374,900	0	0	0	2,374,900
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	0.00	0	0	0.0	0	0.0	0
	May	0.00	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		16,860.50	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	0	0	0	0.0	0	0.0	0
	May	0	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		369.00	0.00	0.00	0.00	0.00	0.00	0.00

Accidents:

There were no accidents in March.

Near Miss Reports:

No Near Miss Reports were completed in March.

Training:

36 individuals completed 73 safety courses in March.

5. ENGINEERING & ENVIRONMENTAL

- 3/8: FDEP Visit
- 3/25: Ash Recovery Systems – Fly Ash Beneficial Re-Use
- 3/31: GreenHouse Gas Report (GHG)

Pending:

- Annual Operating Report (AOR) – 4/1
- Annual EIA 923 Due – 4/15

6. OPERATIONS

A total of 1,834.69 nMW was generated during the month.

A total of 73 trucks were unloaded with 1,950 tons of wood received.

There were a total of 102 Safe Work Permits, 42 LOTOs, and 7 Confined Space Permit issued.

An air purge with dehumidified Instrument Air has been placed on the turbine and condenser. The Boiler, DA / Feedwater tank, and Main Steam have remained in a modified long term storage condition. Feedwater tank chemistry continues to be monitored weekly.

FRCC Spot Check team was on site March 28 & 29 to review 5 NERC standards and walk down site. FRCC personnel are reviewing two possible violations.

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:** Performed chemical cleaning on RO train B and both UF trains.
- **Well/Reclaim Water:** Reclaim water has been secured and well water use as been curtailed while in Reserve Shutdown.
- **ZDS:** Has been shut down and the BC was mechanically cleaned.
- **Potable water:** Completed and submitted monthly and quarterly samples, including Bacteria.

8. FUEL HANDLING

- Continue to receive dry wood (to be tarped) for long term storage.
- Began receiving pellet wood product to live yard.
- PMs performed on belts and machines.
- Completed Fuel Yard storm drain areas cleaned out and rework. This has minimized standing water in these areas.

9. TRAINING

- GPILearn: 36 individuals completed 73 total courses in March.
- 10 contractors received NAES site safety training in March.

10. MAINTENANCE

- All maintenance worked on GPiLearn courses.
- Attended weekly safety meeting with crews.
- IC/E techs worked on monthly PMs.
- Mechanics worked on monthly PMs.
- Met with NDE vendor.
- Replaced the lighting fixture in fuel yard.
- Two IC/E techs worked on AL 41 main and reserve fault (Schwerhzer).
- Met with a new vendor to service our rolling stock.
- Called in maintenance support for boiler start up.
- Had Evaptech Rep. and maintenance techs inspect cooling towers.
- Contacted Siemens for support on Varrs.
- Changed belts on conveyor # 8
- Supported the startup of boiler, nights & days.
- Had scaffold built for expansion joint replacement.
- Ordered 2 expansion joints for warehouse.
- Inspected & repaired stacker reclaimer bolting on one flight.
- Supported change out of primary air expansion joint.
- Completed boiler capacity testing.
- Inspected doorway on south bag house.
- Repaired FGR breaker - bad RTD.
- Completed transformer dashboard - SD Myers.
- Lube Specialists completed the installation on the stacker reclaimer chain oiler.
- Participated in all-hands site safety stand-down meeting/ reviewed and addressed findings.
- Sent (2) ea. DCS out for repair to Valmet.
- Cummings preformed semi standby generator inspection and service.
- FRCC site visit for 3 days.
- Ring Power repaired the Re-man Wagner and Skid Steer equipment.
- Attended POD meeting.
- Changed boiler ash sieve magnet bearings.
- Scheduled work orders -195. Completed work orders – 140.

11. ADMINISTRATION

Staffing:

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

Temporary Staffing:

There was no temporary labor on site in March.

Statistics:

- Payroll: 76 Payroll records processed.
- Accounts Payable: 182 invoices processed*, 41 payments processed.
*March invoices will continue to be processed through April 15, 2016.
- Procurement: 94 Requisitions reviewed, 92 Purchase Orders generated.
- March Overtime: 9.42% of total hours.
- 2016 annual overtime: 8.15% of total hours.

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