

**GAINESVILLE RENEWABLE
ENERGY CENTER**

**BIOMASS BOILER (EU ID 002)
CEMS/COMS CERTIFICATION REPORTS**

January 2014

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1.0 INTRODUCTION

Gainesville Renewable Energy Center, LLC (GREC) received authorization to construct and initially operate a nominal 100 megawatt (MW) woody biomass fueled power plant in Gainesville, Alachua County, Florida. The facility was issued a Prevention of Significant Deterioration (PSD) air construction permit (Air Permit No. 0010131-001-AC / PSD-FL-411) by the Department dated December 28, 2010. The PSD air construction permit expires on December 31, 2014.

As required by Section 3.B, Condition 13 of Air Permit No. 0010131 (PSD-FL-411), certifications of the GREC biomass fired bubbling fluidized bed (BFB) boiler (EU ID 002) continuous emissions monitoring systems (CEMS) and continuous opacity monitoring system (COMS) were conducted in November 2013. The GREC BFB boiler is equipped with SO₂, NO_x, CO, HCl, and HF CEMS, a O₂ diluent monitor, and a COMS.

As required by Section 3.B, Conditions 18 and 19 of Air Permit No. 0010131 (PSD-FL-411), initial compliance stack tests to measure emissions from the GREC BFB boiler were also conducted in November 2013. Initial compliance stack tests were conducted for NO_x, SO₂, sulfuric acid mist (SAM), CO, HCl, HF, PM (filterable and condensable), VOC, NH₃ slip, Hg, organic HAPs, metallic HAPs, and VEs. The initial compliance stack tests demonstrated compliance with all of emission standards listed in Section 3.B., Condition 9. of Air Permit No. 0010131.

Following this introduction, results of the 7-day calibration error test, linearity test, cycle time test, relative accuracy test audits, and COMS certification are provided in Attachments A through E, respectively.