Table 1, Summary of Air Pollutant Standards and Terms

Gainesville Renewable Energy Center

Final Permit No. 0010131-004-AV
Facility ID No. 0010131

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No.	Brief Description
001	A. Biomass fuel delivery, preparation, storage and handling

The following apply to each individual emissions unit

Pollutant Name or Parameter	Fuel(s)	Hours/Year	Allowable Emissions Standard(s)	Allowable Emissions lbs./hour	Allowable Emissions TPY	Equivalent Emissions* lbs./hour	Equivalent Emissions* TPY	Regulatory Citation(s)	See permit condition(s)
VE (opacity)	N/A	8760	10%, 6-minute average except for one 6 minute period no greater than 20% from the outlets of the drop points and transfer points associated with this emission unit			N/A	N/A	[Permit No. 0010131-003-AC (PSD-FL-411B); Rules 62-212.400(5)(c), 62-4.070(3), 62-210.200(PTE) and 62-212.400 (BACT), F.A.C.]	III.A.6.

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E.U. ID No.	Brief Description
002	Nominal net 100 MW BFB, biomass fueled boiler

Pollutant Name or Parameter	Fuel(s)	Hours/Year	Allowable Emissions Standard(s)	Allowable Emissions lbs./hour	Allowable Emissions TPY	Equivalent Emissions* lbs./hour	Equivalent Emissions* TPY	Regulatory Citation(s)	See permit condition(s)
PM/PM_{10}	Biomass	8760	0.0098 lb/Mbtu			13.30	58.30	PSD-FL-411B	**III.B.10.**
VE (opacity) [1]	Biomass	8760	10% Opacity (20% once/hr)			N/A	N/A	PSD-FL-411B	**III.B.10.**
Hg	Biomass	8760	8.0×10^{-7} lb/MMBtu			N/A	N/A	PSD-FL-411B	**III.B.10.**
HCl	Biomass	8760	2.22 lb/hr			N/A	9.700	Applicant's Request	**III.B.10.**
			0.022 lb/MMBtu			29.9000	131.0	NESHAP Subpart DDDDD	**III.B.10.**
HF	Biomass	8760	2.22 lb/hr			N/A	9.700	Applicant's Request	**III.B.10.**
NOx	Biomass	8760	1.0 lb/MWH (gross basis)			N/A	N/A	NSPS Subpart Da	**III.B.10.**
			0.070 lb/MMBtu			N/A	N/A	Applicant's Request	**III.B.10.**
			416.4 TPY			N/A	N/A	Emission Cap	**III.B.10.**
SO_2	Biomass	8760	1.4 lb/MWH (gross basis)			N/A	N/A	NSPS Subpart Da	**III.B.10.**
			0.029 lb/MMBtu			N/A	N/A	Applicant's Request	**III.B.10.**
			170.7 TPY			N/A	N/A	Emission Cap	**III.B.10.**
CO [2]	Biomass	8760	0.12/0.08 lb/MMBtu			N/A	N/A	PSD-FL-411B	**III.B.10.**
			310 ppmvd @3% O_2			N/A	N/A	NSHAP Subpart DDDDD	**III.B.10.**
VOC [3]	Biomass	8760	0.010/0.009 lb/MMBtu			N/A	N/A	PSD-FL-411B	**III.B.10.**
Ammoina Slip	Biomass	8760	10 ppmvd @7% O_2			N/A	N/A	Rule 62-210.650, F.A.C. and Rule 62-4.070(3), F.A.C	**III.B.10.**
SAM	Biomass	8760	1.4 lb/hr			N/A	N/A	Rule 62-4.070(3), F.A.C.	**III.B.10.**

"N/A" represents not applicable.

* The "Equivalent Emissions" listed are for informational purposes only.

Notes:

[2] During startups, shutdowns and malfunction the following limits apply: 20% opacity (6-minute blocks) except for one 6-minute block per hour of 27%.

[2] A CO limit of 0.12 lb/MMBtu on a rolling 30-day average applies from the startup of boiler operation through 360 calendar days after certification of the CO-CEMS. A CO limit of 0.08 lb/MMBtu applies thereafter.

[3] A VOC limit of 0.010 lb/MMBtu applies from the startup of boiler operation through 360 calendar days after certification of the CO-CEMS. A VOC limit of 0.009 lb/MMBtu applies thereafter.

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Gainesville Renewable Energy Center

Final Permit No. 0010131-004-AV

Facility ID No. 0010131

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E.U. ID No.	**Brief Description**
003	Ash handling, storage and shipment

Pollutant Name or Parameter	Fuel(s)	Hours/Year	Allowable Emissions Standard(s)	lbs./hour	TPY	Equivalent Emissions* lbs./hour	TPY	Regulatory Citation(s)	See permit condition(s)
bottom and fly ash conveyors, transfer points, drop points, hoppers, chutes and dust collectors **VE**		8,760	no visible emissions greater than 10% opacity, except for one 6 minute period no greater than 20%					PSD-FL-411B	**III.C.6.**
Fly Ash Silo Baghouse **PM** [1]		8,760	0.015 gr/dscf					PSD-FL-411B	**III.C.7.**
Fly Ash Silo Baghouse **VE**		8,760	5%					PSD-FL-411B	**III.C.8.**

Notes:

* The "Equivalent Emissions" listed are for informational purposes only.

Notes:

[1] A visible emission reading of 5% opacity or less may be used to demonstrate compliance with the PM emission standard

Table 1, Summary of Air Pollutant Standards and Terms

Gainesville Renewable Energy Center

Final Permit No. 0010131-004-AV
Facility ID No. 0010131

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.U. ID No.	Brief Description
005	One emergency generator diesel engine (910 kW)

Pollutant Name or Parameter	Fuel(s)	Hours/Year	Allowable Emissions Standard(s)	lbs./hour	TPY	Equivalent Emissions* lbs./hour	TPY	Regulatory Citation(s)	See permit condition(s)
CO	Diesel	8,760	3.5 grams/kW-hr [1]					PSD-FL-411B	**III.D.7.**
PM	Diesel	8,760	0.2 grams/kW-hr					PSD-FL-411B	**III.D.7.**
SO_2	Diesel	8,760	0.015% sulfur content [2]					PSD-FL-411B	**III.D.7.**
NMHC [3] + NO_X	Diesel	8,760	6.4 grams/kW-hr					PSD-FL-411B	**III.D.7.**

Notes:
* The "Equivalent Emissions" listed are for informational purposes only.

Notes:
[1] g/kW-hr means grams per kilowatt-hour
[2] SO_2 emission standard will be met by using ULSD fuel oil in the emergency generator diesel engine with a fuel sulfur (S) content of 0.0015% by weight.
[3] NMHC means Non-Methane Hydrocarbons

Table 1, Summary of Air Pollutant Standards and Terms

Gainesville Renewable Energy Center

Final Permit No. 0010131-004-AV

Facility ID No. 0010131

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E.U. ID No.	Brief Description
006	One emergency firewater pump diesel engine (315 hp)

Pollutant Name or Parameter	Fuel(s)	Hours/Year	Allowable Emissions Standard(s)	Allowable Emissions lbs./hour	Allowable Emissions TPY	Equivalent Emissions* lbs./hour	Equivalent Emissions* TPY	Regulatory Citation(s)	See permit condition(s)
CO	Diesel	8,760	2.6 grams/kW-hr [1]					PSD-FL-411B	**III.E.7.**
PM	Diesel	8,760	0.15 grams/kW-hr					PSD-FL-411B	**III.E.7.**
SO_2	Diesel	8,760	0.015% sulfur content [2]					PSD-FL-411B	**III.E.7.**
NMHC [3] + NO_X	Diesel	8,760	3.0 grams/kW-hr					PSD-FL-411B	**III.E.7.**

Notes:

* The "Equivalent Emissions" listed are for informational purposes only.

Notes:

[1] g/kW-hr means grams per kilowatt-hour

[2] SO_2 emission standard will be met by using ULSD fuel oil in the emergency generator diesel engine with a fuel sulfur (S) content of 0.0015% by weight.

[3] NMHC means Non-Methane Hydrocarbons

Table 1, Summary of Air Pollutant Standards and Terms

Gainesville Renewable Energy Center

Final Permit No. 00101
Facility ID No. 001013:

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions c

E.U. ID No.	Brief Description
007	Ash handling, storage and shipment

Pollutant Name or Parameter			Allowable Emissions			Equivalent Er
	Fuel(s)	Hours/Year	Standard(s)	lbs./hour	TPY	lbs./hour
Opacity from the bin vent filter of the alkaline sorbent storage silo **VE**		8,760	5%			
PM emissions from the bin vent filter of the alkaline sorbent storage silo [1]		8,760	0.01gr/dscf			

Notes:

[1] A visible emission reading of 5% opacity or less may be used to demonstrate compliance with the PM emission standard

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of this permit.

missions*		
TPY	Regulatory Citation(s)	permit condition(s)
	PSD-FL-411B	**III.F.3.**
	PSD-FL-411B	**III.F.4.**