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# Florida Energy Efficiency Code For Building Construction

EnergyGauge Summit® Fla/Com-2010, Effective Date: March 15, 2012 -- Form 506-2010  
Total Building Performance Method for Commercial Buildings

## PROJECT SUMMARY

<b>Short Desc:</b> Campus USA	<b>Description:</b> Campus USA Lake City
<b>Owner:</b> Campus USA Lake City	
<b>Address1:</b> Campus USA Lake City	<b>City:</b> Lake City
<b>Address2:</b>	<b>State:</b> Florida
	<b>Zip:</b> 0
<b>Type:</b> Office	<b>Class:</b> New Finished building
<b>Jurisdiction:</b> LAKE CITY, COLUMBIA COUNTY, FL (221200)	
<b>Conditioned Area:</b> 4361 SF	<b>Conditioned &amp; UnConditioned Area:</b> 4361 SF
<b>No of Stories:</b> 1	<b>Area entered from Plans</b> 4361 SF
<b>Permit No:</b> 0	<b>Max Tonnage</b> 7.5
	<b>If different, write in:</b> _____



Compliance Summary			
Component	Design	Criteria	Result
Gross Energy Cost (in \$)	2,658.0	2,876.0	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			None Entered
HVAC SYSTEM			PASSES
PLANT			None Entered
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			None Entered
Met all required compliance from Check List?			<del>Yes</del> /No/NA
IMPORTANT MESSAGE			
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report			

## CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: New Age Dimensions, LLC

Building Official: \_\_\_\_\_

Date: 5/10/13

Date: \_\_\_\_\_

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: Campus USA Lake City

Date: \_\_\_\_\_

If Required by Florida law, I hereby certify (\*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: Robert S. Taylor

Reg No: AR-0007526

Electrical Designer: Robert S. Taylor

Reg No: AR-0007526

Lighting Designer: Robert S. Taylor

Reg No: AR-0007526

Mechanical Designer: New Age Dimensions

Reg No: \_\_\_\_\_

Plumbing Designer: Robert S. Taylor

Reg No: \_\_\_\_\_

(\*) Signature is required where Florida Law requires design to be performed by registered design professionals.

*MR*  
*5.10.2013*

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Project: Campus USA  
 Title: Campus USA Lake City  
 Type: Office  
 (WEA File: FL\_JACKSONVILLE\_INTL\_ARPT.tm3)

### Building End Uses

	1) Proposed	2) Baseline
<b>Total</b>	<i>169.20</i>	<i>228.00</i>
	<i>\$2,658</i>	<i>\$3,594</i>
ELECTRICITY(MBtu/kW h/\$)	169.20	228.00
	49596	66812
	<i>\$2,658</i>	<i>\$3,594</i>
<b>AREA LIGHTS</b>	34.20	54.30
	10014	15918
	<i>\$537</i>	<i>\$856</i>
<b>MISC EQUIPMT</b>	41.70	41.70
	12232	12232
	<i>\$656</i>	<i>\$658</i>
<b>PUMPS &amp; MISC</b>	0.30	0.30
	88	80
	<i>\$5</i>	<i>\$4</i>
<b>SPACE COOL</b>	35.80	50.20
	10498	14719
	<i>\$563</i>	<i>\$792</i>
<b>SPACE HEAT</b>	9.10	14.40
	2659	4212
	<i>\$143</i>	<i>\$227</i>
<b>VENT FANS</b>	48.10	67.10
	14105	19651
	<i>\$756</i>	<i>\$1,057</i>

Credits Applied: None

Passing Criteria = 2876

Design (including any credits) = 2658

Passing requires Proposed Building cost to be at most 80% of  
 Baseline cost. This Proposed Building is at 74%

PASSES

### External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length ELPA or No. of Units (W) (Sqft or ft)	CLP (W)
<div style="border: 1px solid black; padding: 2px; display: inline-block;">None</div>					

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### Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
IT Room	17	Office - Enclosed	233	1	1	PASSES
Mech Room	1	Electrical Mechanical Equipment Room - General	129	1	1	PASSES
ATM Room	17	Office - Enclosed	88	1	1	PASSES
Drive Thru Teller	16	Office - Open Plan	180	1	1	PASSES
Electrical	1	Electrical Mechanical Equipment Room - General	55	1	1	PASSES
Custodial	2	Storage & Warehouse - Inactive Storage	40	1	1	PASSES
RR 112	6	Toilet and Washroom	72	1	1	PASSES
RR 113	6	Toilet and Washroom	64	1	1	PASSES
RR 111	6	Toilet and Washroom	49	1	1	PASSES
Conference	17	Office - Enclosed	201	1	1	PASSES
Break Room	1	Electrical Mechanical Equipment Room - General	210	1	1	PASSES
Smart Office	17	Office - Enclosed	95	1	1	PASSES
Office 108	17	Office - Enclosed	138	1	1	PASSES
Lobby	12	Lobby (General) - Reception and Waiting	702	1	1	PASSES
Work Room	16	Office - Open Plan	105	1	1	PASSES
Office 106	17	Office - Enclosed	165	1	1	PASSES
Office 105	17	Office - Enclosed	165	1	1	PASSES
Office 104	17	Office - Enclosed	173	1	1	PASSES
Waiting	12	Lobby (General) - Reception and Waiting	860	1	1	PASSES
Tellers	16	Office - Open Plan	445	1	1	PASSES
Head Teller	16	Office - Open Plan	193	1	1	PASSES
<div>PASSES</div>						



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Mini Split	Mini Split	Constant Volume Air Cooled Split System < 65000 Btu/hr	No. of Units 1
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7.5 Ton	7.5 Ton	Constant Volume Packaged System	No. of Units 2
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## PASSES

Plant Compliance								
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
								None

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Water Heater Compliance								
Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance	
Water Heater 1	Electric water heater	<= 12 [kW]	0.93	0.90			PASSES	
								PASSES

Piping System Compliance								
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance	
								None

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### Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	506.4.2	Input Report Print-Out from EnergyGauge FlaCom attached	<input checked="" type="checkbox"/>
Operations Manual	303.3.1, 503.2.9.3, 505.7.4.2	Operations manual provided to owner	<input checked="" type="checkbox"/>
Windows & Doors	502.3.2	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft <sup>2</sup> ; all other products: 0.3 cfm/ft <sup>2</sup>	<input checked="" type="checkbox"/>
Joints/Cracks	502.3.3	To be caulked, gasketed, weather-stripped or otherwise sealed	<input checked="" type="checkbox"/>
Dropped Ceiling Cavity	502.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	<input checked="" type="checkbox"/>
HVAC Efficiency	503.2.3	Minimum efficiencies: Tables 503.2.3(1)-(8)	<input checked="" type="checkbox"/>
HVAC Controls	503.2.4	Zone controls prevent reheat (exceptions); separate thermostatic control per zone;	<input checked="" type="checkbox"/>
Ventilation	503.2.5	Outdoor air supply & exhaust ducts shall have dampers that automatically shut when systems or spaces served are not in use. Exhaust air energy recovery required for cooling systems (Exceptions).	<input checked="" type="checkbox"/>
ADS	503.2.7.5	Duct sizing and Design have been performed	<input checked="" type="checkbox"/>
HVAC Ducts	503.2.7	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Table 503.2.7.2. Fan power limitations.	<input checked="" type="checkbox"/>
Balancing	503.2.9.1	HVAC distribution system(s) tested & balanced. Report in construction documents.	<input checked="" type="checkbox"/>
Piping Insulation	503.2.8	HAC and service hot water. In accordance with Table 503.2.8.	<input checked="" type="checkbox"/>
Water Heaters	504	Performance requirements in accordance with Table 504.2. Heat trap required.	<input checked="" type="checkbox"/>
Swimming Pools	504.7	Vapor-retardant or liquid cover or other means proven to reduce heat loss on heated pools; Time switch (exceptions); readily accessible on/off switch.	<input checked="" type="checkbox"/>
Motors	505.7.5	Motor efficiency criteria have been met	<input checked="" type="checkbox"/>
Lighting Controls	505.2, 502.3	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluorescent lamps>30W	<input checked="" type="checkbox"/>