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

Short Desc:	GC-CG	**Description:**	Columbia Grain New Building
Owner:	Columbia Grain		
Address1:	3830 NW Brown Rd	**City:**	Lake City
Address2:		**State:**	FL
		Zip:	32055
Type:	Office	**Class:**	New Finished building
Jurisdiction:	COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)		
Conditioned Area:	1600 SF	**Conditioned & UnConditioned Area:**	1600 SF
No of Stories:	1	**Area entered from Plans**	1600 SF
Permit No:	0	**Max Tonnage**	4
		If different, write in:	_____

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

9/7/14

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	1,176.0	1,182.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**PASSES**
Met all required compliance from Check List?			**Yes/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 Gary GIII

Date 9/9/14

Building Official _____

Date _____

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

Owner Agent _____

Date _____

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

Architect Gary GIII

Reg No 51942

Electrical Designer _____

Reg No _____

Lighting Designer _____

Reg No _____

Mechanical Designer _____

Reg No _____

Plumbing Designer _____

Reg No _____

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

9/9/14

Project: GC-CG
Title: Columbia Grain New Building
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*75.20*	*93.80*
	$1,176	*$1,477*
ELECTRICITY(MBtu/kWh/$)	75.20	93.80
	22058	27505
	$1,176	*$1,477*
AREA LIGHTS	15.90	18.40
	4655	5390
	$248	*$289*
MISC EQUIPMT	24.00	24.00
	7033	7033
	$375	*$378*
PUMPS & MISC	0.10	0.10
	38	39
	$2	*$2*
SPACE COOL	18.20	20.60
	5347	6023
	$285	*$323*
SPACE HEAT	0.00	4.40
	0	1300
	$0	*$70*
VENT FANS	17.00	26.30
	4985	7720
	$266	*$415*

Credits Applied: None
Passing Criteria = 1182
Design (including any credits) = 1176
Passing requires Proposed Building cost to be at most 80% of Baseline cost. This Proposed Building is at 79.6%

PASSES

Project: GC-CG
Title: Columbia Grain New Building
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Main entries	Yes	30 00	3 0	90	80

Tradable Surfaces: 80 (W) Allowance for Tradable: 840 (W) **PASSES**
All External Lighting: 80 (W)
Complicance check includes a excess/Base allowance of 750.00(W)

Project: GC-CG
Title: Columbia Grain New Building
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli-ance
Pr0Zo1Sp1	17	Office - Enclosed	1,600	4	1	PASSES

PASSES

Project: GC-CG
Title: Columbia Grain New Building
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity		13 00	12 23	8 00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0 25	0 82			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0 50	0 82			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance

None

Project: GC-CG
Title: Columbia Grain New Building
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0 92	0 92			PASSES

PASSES

Project: GC-CG
Title: Columbia Grain New Building
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

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
Heating System (Steam, Steam Condensate, & Hot Water)	0 25	False	105 00	0 28	0 50	0.50	PASSES

PASSES

Project: GC-CG
Title: Columbia Grain New Building
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(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

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	☐
Operations Manual	303.3 1, 503 2 9 3, 505 7 4 2	Operations manual provided to owner	☐
Windows & Doors	502 3 2	Glazed swinging entrance & revolving doors max 1 0 cfm/ft², all other products 0 3 cfm/ft²	☐
Joints/Cracks	502 3 3	To be caulked, gasketed, weather-stripped or otherwise sealed	☐
Dropped Ceiling Cavity	502 3	Vented seal & insulated ceiling Unvented seal & insulate roof & side walls	☐
HVAC Efficiency	503 2 3	Minimum efficiencies Tables 503 2 3(1)-(8)	☐
HVAC Controls	503 2 4	Zone controls prevent reheat (exceptions), separate thermostatic control per zone,	☐
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)	☐
ADS	503 2 7 5	Duct sizing and Design have been performed	☐
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	☐
Balancing	503 2 9 1	HVAC distribution system(s) tested & balanced Report in construction documents	☐
Piping Insulation	503 2 8	HAC and service hot water In accordance with Table 503 2 8	☐
Water Heaters	504	Performance requirements in accordance with Table 504 2 Heat trap required	☐
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	☐
Motors	505 7 5	Motor efficiency criteria have been met	☐
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	☐

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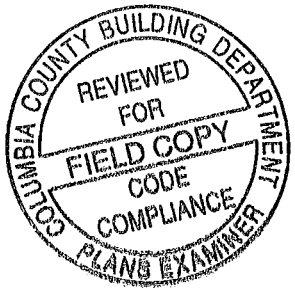

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Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance

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Joints/Cracks	502 3 3	To be caulked, gasketed, weather-stripped or otherwise sealed	☐
Dropped Ceiling Cavity	502 3	Vented seal & insulated ceiling Unvented seal & insulate roof & side walls	☐
HVAC Efficiency	503 2 3	Minimum efficiencies Tables 503 2 3(1)-(8)	☐
HVAC Controls	503 2 4	Zone controls prevent reheat (exceptions), separate thermostatic control per zone,	☐
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)	☐
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EnergyGauge Summit® v4.10

INPUT DATA REPORT

Project Information

Project Name: GC-CG

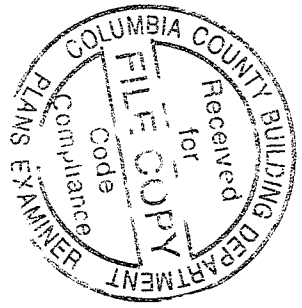
Project Title: Columbia Grain New Building

Address: 3830 NW Brown Rd

State: FL

Zip: 32055

Owner: Columbia Grain



Orientation: North

Building Type: Office

Building Classification: New Finished building

No.of Stories: 1

GrossArea: 1600 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	1600 0	1	1600 0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]

In Zone: Pr0Zo1									
1 Pr0Zo1Sp1	Zo0Sp1	Office - Enclosed	32 00	50 00	8 00	1	1600 0	12800 0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: Pr0Zo1								
In Space: Pr0Zo1Sp1								
1	Recessed Fluorescent - Return & Supply vent	General Lighting	10	128	1280	Manual On/Off	3	☐
2	Incandescent	General Lighting	3	80	240	Manual On/Off	1	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Wa1	Metal siding/2x4@24"+R11Batt/5/8"Gyp	32 00	8 00	1	256 0	North	0 0920	1 072	19.38	10 9	☐
2	Pr0Zo1Wa2	Metal siding/2x4@24"+R11Batt/5/8"Gyp	50 00	8 00	1	400 0	West	0 0920	1 072	19 38	10 9	☐
3	Pr0Zo1Wa3	Metal siding/2x4@24"+R11Batt/5/8"Gyp	32 00	8 00	1	256 0	South	0 0920	1 072	19.38	10 9	☐
4	Pr0Zo1Wa4	Metal siding/2x4@24"+R11Batt/5/8"Gyp	50 00	8 00	1	400 0	East	0 0920	1 072	19.38	10.9	☐

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa1											
1	Pr0Zo1Wa1Wi1	User Defined	No	0 4500	0 34	0.21	8 00	5 00	1	40 0	☐
2	Pr0Zo1Wa1Wi2	User Defined	No	0 4500	0 34	0.21	5 00	4 00	1	20 0	☐
In Wall: Pr0Zo1Wa2											
1	Pr0Zo1Wa2Wi1	User Defined	No	0 4500	0 34	0 21	8 00	5 00	1	40 0	☐
2	Pr0Zo1Wa2Wi2	User Defined	No	0 4500	0 34	0 21	4 00	5 00	1	20 0	☐
In Wall: Pr0Zo1Wa3											
1	Pr0Zo1Wa3Wi1	User Defined	No	0 4500	0 34	0 21	4 00	5 00	1	20.0	☐

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
In Wall: Pr0Zo1Wa2												
1	Pr0Zo1Wa2Dr1	Polystyrene core (18 ga steel) 1	No	3 00	7 00	1	21 0	0 4982	0 00	0 00	2 01	☐
In Wall: Pr0Zo1Wa3												
1	Pr0Zo1Wa3Dr1	Polystyrene core (18 ga steel) 1	No	3 00	7 00	1	21 0	0 4982	0 00	0.00	2 01	☐
In Wall: Pr0Zo1Wa4												
1	Pr0Zo1Wa4Dr1	Polystyrene core (18 ga steel) 1	No	3 00	7 00	1	21 0	0 4982	0 00	0 00	2 01	☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: Pr0Zo1											

1	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	50 00	32.00	1	1600 0	0 00	0 0492	1 34	9 49	20 3

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof:										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone:	**Pr0Zo1**									
1	Pr0Zo1Fl1	1 ft. soil, concrete floor, carpet and rubber pad	50 00	32 00	1	1600 0	0 2681	34 00	113 33	3 73

Systems

Pr0Sy1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV
1	Cooling System	48000 00	13.00	8 00
2	Air Handling System -Supply	1600 00	0.25	
3	Air Handling System - Return	1600 00	0 50	

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV

Water Heaters

	W-Heater Description	Capacity Cap.Unit	I/P Rt.	Efficiency	Loss
1	Electric water heater	40 [Gal]	5 [kW]	0 9200 [Ef]	[Btu/h]

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
1	Ext Light 1	Main entries	2	40	3 00	Photo Sensor control	80 00

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Heating System (Steam, Steam Condensate, & Hot Water)	105 00	0 28	0.25	0 50	No

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
ASHULTplTntWd-Vy-Fg frm	User Defined	3	0 4500	0 3400	0.2100

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0 4533	0.0417	0 0920	50 00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1 2300					☐
265	Matl265	Soıl, 1 ft	No	2 0000	1 0000	0 5000	100 00	0.2000	☐
48	Matl48	6 ın. Heavyweıght concrete	No	0 5000	0 5000	1 0000	140 00	0.2000	☐
23	Matl23	6 ın. Insulatıon	No	20 0000	0 5000	0 0250	5 70	0.2000	☐
4	Matl4	Steel sıdıng	No	0 0002	0 0050	26 0000	480 00	0.1000	☐
271	Matl271	2x4@24" oc + R11 Batt	No	10 4179	0.2917	0 0280	7 11	0.2000	☐
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0 3366	0 0313	0 0930	70 00	0 3500	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1033	Polystyrene core (18 ga steel) 1	No	Yes	0 50			2 0	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	284	Polystyrene core (18 ga steel) 1		0 000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1055	Metal sıdıng/2x4@24"+R11Batt/5/8"Gyp	No	No	0 09	1 07	19 38	10 9	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	4	Steel sıdıng	0 0050	0 000	☐
2	271	2x4@24" oc + R11 Batt	0.2917	0 000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1055	Metal sıdıng/2x4@24"+R11Batt/5/8"Gyp	No	No	0 09	1 07	19 38	10 9	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
3	187	GYP OR PLAS BOARD,1/2IN	0 0417	0 000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1056	Mtl Bldg Roof/R-19 Batt	No	No	0 05	1 34	9 49	20.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	94	BUILT-UP ROOFING, 3/8IN	0 0313	0 000	☐
2	23	6 ın. Insulatıon	0 5000	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34 00	113.33	3 7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	265	Soıl, 1 ft	1 0000	0 000	☐
2	48	6 ın. Heavyweıght concrete	0 5000	0 000	☐
3	178	CARPET W/RUBBER PAD		0 000	☐

Profiles

0	0	No Classification	No Classification	
	201	People	2	Fractional Null Schedule
	202	Lighting	2	Fractional Null Schedule
	203	Infiltration	2	Fractional Null Schedule
	204	Equipment	2	Fractional Null Schedule
	205	Sources	2	Fractional Null Schedule
	206	HeatTemp	202	Set Point 55
	207	CoolTemp	201	Set Point 99
	208	Hot Water Schedule	2	Fractional Null Schedule
	1,001	Heating Schedule	1	ON-OFF Null Schedule
	1,002	Cooling Schedule	1	ON-OFF Null Schedule
	1,003	Fan Operation Schedu	1	ON-OFF Null Schedule
501	501	ACM-NonRes	ACM Nonres	
	201	People	519	ACM Nonres People
	202	Lighting	507	ACM Nonres Lights
	203	Infiltration	516	ACM Nonres Infiltration
	204	Equipment	510	ACM Nonres Equipment
	205	Sources	2	Fractional Null Schedule
	206	HeatTemp	501	ACM Nonres Heating
	207	CoolTemp	504	ACM Nonres Cooling
	208	Hot Water Schedule	522	ACM Nonres Hot Water
	1,001	Heating Schedule	410	Always ON
	1,002	Cooling Schedule	410	Always ON
	1,003	Fan Operation Schedu	513	ACM Nonres Fans

Schedules

1	1	On/Off	ON-OFF Null Schedule

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1

2	2	Fraction	Fractional Null Schedule

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2

44	44	Absolute	SetPt78

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179

45	45	Absolute	Set Point 70

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180

201	201	Absolute	Set Point 99

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201

202	202	Absolute	Set Point 55

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202

410	410		On/Off	Always ON					
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	
501	501		Absolute	ACM Nonres Heating					
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr501	ShHr501	ShHr501	ShHr501	ShHr501	ShHr502	ShHr503	ShHr503	
504	504		Absolute	ACM Nonres Cooling					
Hourly Sch for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr504	ShHr504	ShHr504	ShHr504	ShHr504	ShHr505	ShHr506	ShHr506	
507	507		Fraction	ACM Nonres Lights					
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr507	ShHr507	ShHr507	ShHr507	ShHr507	ShHr508	ShHr509	ShHr509	
510	510		Fraction	ACM Nonres Equipment					
Hourly Sch for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr510	ShHr510	ShHr510	ShHr510	ShHr510	ShHr511	ShHr512	ShHr512	
513	513		On/Off	ACM Nonres Fans					
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr513	ShHr513	ShHr513	ShHr513	ShHr513	ShHr514	ShHr515	ShHr515	
516	516		Fraction	ACM Nonres Infiltration					
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr516	ShHr516	ShHr516	ShHr516	ShHr516	ShHr517	ShHr518	ShHr518	

519	519			Fraction	ACM Nonres People				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr519	ShHr519	ShHr519	ShHr519	ShHr519	ShHr520	ShHr521	ShHr521	
522	522			Fraction	ACM Nonres Hot Water				
Hourly Sch for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr522	ShHr522	ShHr522	ShHr522	ShHr522	ShHr523	ShHr524	ShHr524	
1,001	1,001			Absolute	Absolute null schedule				
Hourly Sch for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	
1,002	1,002			Absolute	Absolute null schedule				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	
1,003	1,003			Absolute	Absolute null schedule				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr10003	ShHr10003	ShHr10003	ShHr10003	ShHr10003	ShHr10003	ShHr10003	ShHr10003	

Hourly Schedules

Id	Acronym	Type	Values				Hours 1 thru 8 Hours 9 - 16 Hours 17 - 24			
1	ShHr1	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
On-Off Null Schedule			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	ShHr2	Fraction	0	0	0	0	0	0	0	0
Fraction Null Schedule			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
3	ShHr3	Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
179	ShHr179	Absolute	78	78	78	78	78	78	78	78
Set point 78 F All Day			78	78	78	78	78	78	78	78
			78	78	78	78	78	78	78	78
180	ShHr180	Absolute	70	70	70	70	70	70	70	70
Set Point 70 F All Day			70	70	70	70	70	70	70	70
			70	70	70	70	70	70	70	70
201	ShHr201	Absolute	99	99	99	99	99	99	99	99
Set point 99			99	99	99	99	99	99	99	99
			99	99	99	99	99	99	99	99
202	ShHr202	Absolute	45	45	45	45	45	45	45	45
Set Point 55			45	45	45	45	45	45	45	45
			45	45	45	45	45	45	45	45
410	ShHr410	On/Off	ON	ON	ON	ON	ON	ON	ON	ON
Always On schedule			ON	ON	ON	ON	ON	ON	ON	ON
			ON	ON	ON	ON	ON	ON	ON	ON
411	ShHr411	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Always Off Schedule			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
412	ShHr412	Absolute	0 03804	0 03804	0.03804	0.03804	0 03804	0 03804	0 03804	0 03804
Florida Avg Week Day Summer E			0.03804	0.03804	0 03804	0 0686	0 0686	0 0686	0 0686	0.0686
			0.0686	0.0686	0 0686	0.0686	0.0686	0 03804	0.03804	0.03804

413 ShHr413 Absolute	0.03804	0 03804	0 03804	0 03804	0 03804	0 0686	0.0686	0.0686
Florida Avg. Week Day Winter Ele	0.0686	0.0686	0 03804	0 03804	0.03804	0 03804	0 03804	0.03804
	0.03804	0.0686	0 0686	0.0686	0 0686	0.0686	0 03804	0 03804
414 ShHr414 Absolute	0.03804	0.03804	0 03804	0 03804	0.03804	0.03804	0 03804	0.03804
Florida Avg Week End Summer E	0.03804	0.03804	0 03804	0 03804	0 03804	0 03804	0 03804	0 03804
	0 03804	0 03804	0 03804	0 03804	0.03804	0.03804	0.03804	0.03804
415 ShHr415 Absolute	0.03804	0.03804	0 03804	0 03804	0 03804	0.03804	0 03804	0 03804
Florida Avg Week End Winter Ele	0.03804	0.03804	0.03804	0 03804	0.03804	0 03804	0 03804	0 03804
	0.03804	0.03804	0 03804	0.03804	0 03804	0 03804	0 03804	0 03804
501 ShHr501 Absolute	60	60	60	60	60	65	65	70
ACM Nonres Heating Weekday	70	70	70	70	70	70	70	70
	70	70	65	60	60	60	60	60
502 ShHr502 Absolute	60	60	60	60	60	65	65	65
ACM Nonres Heating Saturday	65	65	65	65	65	65	65	65
	60	60	60	60	60	60	60	60
503 ShHr503 Absolute	60	60	60	60	60	65	65	65
ACM Nonres Heating Sunday	65	65	65	65	65	65	65	65
	60	60	60	60	60	60	60	60
504 ShHr504 Absolute	77	77	77	77	77	73	73	73
ACM Nonres Cooling Weekday	73	73	73	73	73	73	73	73
	73	73	77	77	77	77	77	77
505 ShHr505 Absolute	77	77	77	77	77	73	73	73
ACM Nonres Cooling Saturday	73	73	73	73	73	73	73	73
	73	73	77	77	77	77	77	77
506 ShHr506 Absolute	77	77	77	77	77	73	73	73
ACM Nonres Cooling Sunday	73	73	73	73	73	73	73	73
	73	73	77	77	77	77	77	77
507 ShHr507 Fraction	0.05	0.05	0 05	0 05	0 1	0 2	0.4	0 7
ACM Nonres Lights Weekday	0.8	0.85	0 85	0.85	0 85	0 85	0 85	0 85
	0.85	0.8	0 35	0.1	0 1	0 1	0 1	0.1
508 ShHr508 Fraction	0.05	0.05	0 05	0 05	0.05	0.1	0 15	0 25
ACM Nonres Lights Saturday	0.25	0.25	0.25	0 25	0 25	0.25	0 2	0.2
	0.2	0.15	0.1	0 1	0.1	0 1	0.1	0 1
509 ShHr509 Fraction	0 05	0.05	0.05	0 05	0 05	0 1	0.1	0 15
ACM Nonres Lights Sunday	0.15	0.15	0.15	0 15	0 15	0.15	0 15	0.15
	0.15	0.1	0 1	0.1	0.05	0 05	0.05	0 05
510 ShHr510 Fraction	0.15	0.15	0.15	0.15	0 15	0 2	0 35	0 6
ACM Nonres Equipment Weekday	0.7	0.7	0 7	0 7	0 7	0 7	0 7	0 7
	0 65	0.45	0.3	0.2	0 2	0 15	0 15	0.15

511	ShHr511	Fraction	0 15	0.15	0 15	0 15	0 15	0 15	0 15	0 2
ACM Nonres Equipment Saturday			0.25	0.25	0.25	0.25	0 25	0 25	0 2	0.2
			0.2	0.15	0 15	0.15	0 15	0 15	0.15	0 15
512	ShHr512	Fraction	0.15	0.15	0 15	0 15	0 15	0.15	0 15	0 2
ACM Nonres Equipment Sunday			0.2	0.2	0 2	0.2	0 2	0.2	0 2	0 2
			0.2	0.15	0 15	0.15	0 15	0 15	0.15	0 15
513	ShHr513	On/Off	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
ACM Nonres Fans Weekday			ON	ON	ON	ON	ON	ON	ON	ON
			ON	ON	ON	ON	OFF	OFF	OFF	OFF
514	ShHr514	On/Off	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
ACM Nonres Fans Saturday			ON	ON	ON	ON	ON	ON	ON	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
515	ShHr515	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
ACM Nonres Fans Sunday			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
516	ShHr516	Fraction	1	1	1	1	1	0	0	0
ACM Nonres Infiltration Weekday			0	0	0	0	0	0	0	0
			0	0	0	0	1	1	1	1
517	ShHr517	Fraction	1	1	1	1	1	0	0	0
ACM Nonres Infiltration Saturday			0	0	0	0	0	0	0	1
			1	1	1	1	1	1	1	1
518	ShHr518	Fraction	1	1	1	1	1	1	1	1
ACM Nonres Infiltration Sunday			1	1	1	1	1	1	1	1
			1	1	1	1	1	1	1	1
519	ShHr519	Fraction	0	0	0	0	0 05	0 1	0 25	0.65
ACM Nonres People Weekday			0.65	0.65	0.65	0.6	0 6	0 65	0 65	0.65
			0.65	0.4	0.25	0 1	0 05	0 05	0 05	0
520	ShHr520	Fraction	0	0	0	0	0	0	0.05	0 15
ACM Nonres People Saturday			0.15	0.15	0.15	0.15	0.15	0 15	0 15	0 15
			0.15	0 05	0 05	0.05	0	0	0	0
521	ShHr521	Fraction	0	0	0	0	0	0	0	0.05
ACM Nonres People Sunday			0.05	0.05	0 05	0.05	0 05	0.05	0 05	0 05
			0.05	0 05	0.05	0.05	0	0	0	0
522	ShHr522	Fraction	0	0	0	0	0 1	0 1	0 5	0 5
ACM Nonres Hot Water Weekday			0 5	0.5	0.7	0.9	0 9	0 5	0 5	0.7
			0 5	0.5	0.5	0 1	0 1	0 1	0 1	0.1
523	ShHr523	Fraction	0	0	0	0	0	0	0 1	0 2
ACM Nonres Hot Water Saturday			0.2	0.2	0 2	0 2	0.2	0 2	0 2	0 2
			0.2	0.1	0.1	0.1	0	0	0	0

524 ShHr524 Fraction	0	0	0	0	0	0	0	0 1
ACM Nonres Hot Water Sunday	0.1	0.1	0 1	0.1	0 1	0.1	0 1	0 1
	0.1	0.1	0 1	0 1	0	0	0	0
),001 ShHr1000' Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
),002 ShHr1000; Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
),003 ShHr1000; Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0