Florida Building Code, Sixth Edition (2017) - Energy Conservation

EnergyGauge Summit® Fla/Com-2017, Effective Date: Dec 31, 2017
IECC 2015 - Total Building Performance Compliance Option

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- ☐ This Checklist
- ☐ The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- ☐ The compliance report must include the full input report generated by the software as contigous part of the compliance report.
- ☐ Boxes appropriately checked in the Mandatory Section of the complaince report.

WARNING: INPUT REPORT NOT GENERATED.
To include input report in final submission, go to the Project Form, Settings Tab and check the box - "Append Input Report to Compliance Output Report"
Then rerun your calculation

PROJECT SUMMARY

Short Desc:	18-28	**Description:**	Leon Court State Attorney Oi
Owner:	State of Florida		
Address1:	301 South Monroe Street	**City:**	Tallahassee
Address2:	Suite 475	**State:**	Florida
		Zip:	32301
Type:	Court House	**Class:**	Renovation to existing buildi
Jurisdiction:	LEON COUNTY, LEON COUNTY, FL (471000)		
Conditioned Area:	5060 SF	**Conditioned & UnConditioned Area:**	5060 SF
No of Stories:	1	**Area entered from Plans**	5060 SF
Permit No:	0	**Max Tonnage**	375
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	2,644.0	2,684.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**No Entry**
HVAC SYSTEM			**PASSES**
PLANT			**PASSES**
WATER HEATING SYSTEMS			**No Entry**
PIPING SYSTEMS			**No Entry**
Met all required compliance from Check List?			**Yes/No/NA**

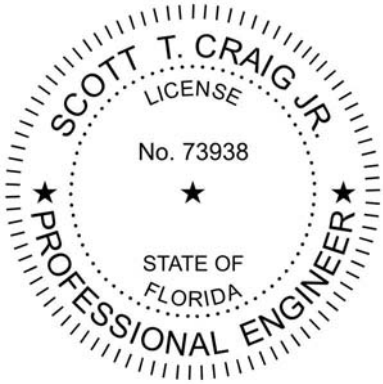
IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

This item has been electronically signed and sealed by **Peter C. Lindstrom, P.E.** on **10/26/2018** using a Digital Signature.

Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Peter C Lindstrom

Digitally signed by Peter C Lindstrom
DN: OID.0.9.2342.19200300.100.1.1=A01098000001468 1E888E200000872, CN=Peter C Lindstrom, OU=H2ENGINEERING INC., O=H2ENGINEERING INC., C=US
Date: 2018.10.26 12:10:01-04'00'



This item has been electronically signed and sealed by **Scott T. Craig, Jr., P.E.** on **10/26/2018** using a Digital Signature.

Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Digitally signed by Scott T Craig Jr.
Date: 2018.10.26 13:06:53-04'00'

CERTIFICATIONS

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

Prepared By: Scott Craig Building Official: _____

Date: _____ 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: _____ Reg No: _____

Electrical Designer: Peter Lindstrom Reg No: 47096

Lighting Designer: Peter Lindstrom Reg No: _____

Mechanical Designer: Scott Craig Reg No: 73938

Plumbing Designer: Scott Craig Reg No: 73938

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: 18-28
Title: Leon Court State Attorney Office
Type: Court House
(WEA File: FL_TALLAHASSEE_REGIONAL_AP_[ISIS].tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*187.60*	*206.90*
	$2,644	*$3,158*
ELECTRICITY(MBtu/kWh/$)	162.00 47481 *$2,516*	203.50 59600 *$3,141*
AREA LIGHTS	29.70 8703 *$461*	53.30 15615 *$823*
HEAT REJECT	7.50 2184 *$116*	9.60 2799 *$148*
MISC EQUIPMT	65.80 19288 *$1,022*	65.80 19288 *$1,016*
PUMPS & MISC	6.40 1884 *$100*	8.80 2583 *$136*
SPACE COOL	36.50 10697 *$567*	36.90 10809 *$570*
SPACE HEAT	0.80 233 *$12*	0.20 51 *$3*
VENT FANS	15.30 4492 *$238*	28.90 8455 *$446*
NATURAL-GAS(MBtu/therm/$)	25.60 256 *$128*	3.40 34 *$17*

	1) Proposed	2) Baseline
SPACE HEAT	25.60	3.40
	256	34
	$128	*$17*

Credits Applied: None
Passing Criteria = 2684
Design (including any credits) = 2644
Passing requires Proposed Building cost to be at most 85% of Baseline cost. This Proposed Building is at 83.7%

PASSES

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)

None

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Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli-ance
OPEN OFFICE 44	16	Office - Open Plan	320	2	1	**PASSES**
OPEN OFFICE 44	16	Office - Open Plan	140	2	1	**PASSES**
CHIEF ATTY. 443	17	Office - Enclosed	200	2	1	**PASSES**
CHIEF ATTY. 443	17	Office - Enclosed	220	2	1	**PASSES**
BREAK 443K	17	Office - Enclosed	195	2	1	**PASSES**
HALL 443I	5	Corridor	220	2	1	**PASSES**
OFFICE 443G	17	Office - Enclosed	120	2	1	**PASSES**
OFFICE 443O	17	Office - Enclosed	110	2	1	**PASSES**
OFFICE 443N	17	Office - Enclosed	120	2	1	**PASSES**
OFFICE 443P	17	Office - Enclosed	110	2	1	**PASSES**
OFFICE 443E	17	Office - Enclosed	125	2	1	**PASSES**
OFFICE 443C	17	Office - Enclosed	125	2	1	**PASSES**
INVEST. 443D	17	Office - Enclosed	125	2	1	**PASSES**
FIRE 443U	2	Storage & Warehouse - Inactive Storage	40	1	1	**PASSES**
IT 443T	17	Office - Enclosed	105	2	1	**PASSES**
IT 443R	17	Office - Enclosed	105	2	1	**PASSES**
STG 443S	2	Storage & Warehouse - Inactive Storage	25	1	1	**PASSES**
OPEN OFFICE 44	16	Office - Open Plan	565	2	1	**PASSES**
CONFERENCE 44	15	Conference/meeting (Multiple Functions)	255	4	1	**PASSES**
LOBBY 443	5	Corridor	380	4	1	**PASSES**
COPY 443A	17	Office - Enclosed	120	2	1	**PASSES**
OPEN OFFICE 44	16	Office - Open Plan	400	2	1	**PASSES**
IT STORAGE 443	2	Storage & Warehouse - Inactive Storage	110	1	1	**PASSES**
VACANT 442	17	Office - Enclosed	425	1	1	**PASSES**
PROB. OFF. 441A	17	Office - Enclosed	120	2	1	**PASSES**
PROB. OFF. 441	17	Office - Enclosed	170	2	1	**PASSES**
VACANT 442A	17	Office - Enclosed	110	1	1	**PASSES**

PASSES

Project: 18-28
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System Report Compliance

AHU-13 System 1 **Variable Air Volume Built-up System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Compliance Not Applicable	358500					**PASSES**
Heating System	Heat source from plant	262200					**PASSES**
Air Handling System -Supply	Air Handler (Supply) - Variable Volume	10440	0.50	1.12			**PASSES**

PASSES

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Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance
Open centrifugal, chiller	3	375	6.300	6.279	7.100	7.032	Water Chilling Pkg (Centrifugal) Elec. Operated Water Cooled 300-600 Tons	**PASSES**
Hot Water Boiler (Fuel)	2	4	82.000	82.000			Gas Fired >= 2,500,000 Btu/h	**PASSES**

PASSES

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance

None

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

Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted with permission

Topic	Section	Component	Description	Yes	N/A	Exempt
1. To be checked by Designer or Engineer						
Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	☐	☑	☐
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	☐	☑	☐
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	☐	☑	☐
Insulation	C402.3	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐	☑	☐
Fenestration	C402.4.4	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☐	☑	☐
SYSTEM_SPECIFIC	C403.2.12.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐	☑	☐
SYSTEM_SPECIFIC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits.	☐	☑	☐
SYSTEM_SPECIFIC	C403.2.3(8) Table	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement meet those listed in Table C403.2.3(8)	☐	☑	☐
HVAC	C403.2.7	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐	☑	☐
SYSTEM_SPECIFIC	C403.3	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐	☑	☐
SYSTEM_SPECIFIC	C403.3.2	Mechanical	Economizer operation will not increase heating energy use during normal operation.	☐	☑	☐
SYSTEM_SPECIFIC	C403.3.4, C403.3.4.1, C403.3.4.2, C403.3.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.	☐	☑	☐
SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐	☑	☐
SYSTEM_SPECIFIC	C403.4.2.3.1	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	☐	☑	☐
SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or vairable speed condenser pumps, are designed so that tower cells can run in parallel with larger of flow crtieria.	☐	☑	☐
SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	☑	☐	☐
Wattage	C405.3	Interior Lighting	Exit signs do not exceed 5 watts per face.	☑	☐	☐
2. To be checked by Plan Reviewer						
Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐	☐	☐

Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering st	☐	☐	☐
Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufact	☐	☐	☐
Plan Review	C103.2	Interior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided shoul	☐	☐	☐
Plan Review	C103.2	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided shoul	☐	☐	☐
Insulation	C402.2.5	Envelope	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐	☐	☐
Insulation	C402.2.6	Project	Radiant heating systems panels insulated to >=R-3.5 on face opposite space being heated.	☐	☐	☐
HVAC	C402.2.6	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐	☐	☐
Insulation	C402.2.6	Envelope	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐	☐	☐
Air Leakage	C402.5.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.3	Mechanical	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐	☐	☐
HVAC	C403.2.13	Mechanical	Unenclosed spaces that are heated use only radiant heat.	☐	☐	☐
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.7	Mechanical	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.5	Mechanical	Hot water boilers supplying heat via one- or two-pipe systems include outdoor setback control.	☐	☐	☐
HVAC	C403.2.6.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.1.1	Mechanical	Hydronic and multizone HVAC system controls areVAV fans driven by mechanical or electrical variable speed drive per Table C403.4.1.1.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.1.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2	Mechanical	Temperature reset by representative building loads in pumping systems for chiller and boiler systems >500,000 Btu/h.	☐	☐	☐

SYSTEM_SPECIFIC	C403.4.2.3.2.1	Mechanical	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or cl	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.4	Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.5	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.6	Mechanical	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.3, C403.4.3.2	Mechanical	Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.6	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building wi	☐	☐	☐
SYSTEM_SPECIFIC	C404.4	Mechanical	All piping insulated in accordance with section details and Table C403.2.10.	☐	☐	☐
SYSTEM_SPECIFIC	C404.5, C404.5.1, C404.5.2	Mechanical	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.3	Mechanical	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐	☐	☐
SYSTEM_SPECIFIC	C404.7	Mechanical	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving	☐	☐	☐
Wattage	C405.5.1	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐
Plan Review	C405.6	Project	Group R-2 dwelling units have separate electrical meters.	☐	☐	☐
Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐	☐	☐
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	☐	☐	☐
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	☐	☐	☐

3. To be checked by Inspector

Insulation	C303.1	Envelope	Roof insulation installed per manufacturerâ€™s instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐	☐	☐
Insulation	C303.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐	☐	☐
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.	☐	☐	☐
Fenestration	C303.1.3	Envelope	Fenestration products are certified as to performance labels or certificates provided.	☐	☐	☐
Insulation	C303.2, C402.2.4	Envelope	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	☐	☐	☐
Insulation	C303.2.1	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐	☐	☐
Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	☐	☐	☐
Insulation	C402.1.3	Envelope	Non-swinging opaque doors have R-4.75 insulation.	☐	☐	☐
Insulation	C402.2.2	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.	☐	☐	☐
Insulation	C402.2.2	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	☐	☐	☐
Air Leakage	C402.5	Envelope	Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage <= 0.40 cfm/ft2.	☐	☐	☐
Air Leakage	C402.5.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐	☐	☐
Air Leakage	C402.5.1.2.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 cfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.1.2.2	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and average assembly air leakage <= 0.04 cfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.2, C402.5.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐	☐	☐
Air Leakage	C402.5.3	Envelope	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope	☐	☐	☐
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close.	☐	☐	☐
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.	☐	☐	☐
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo doors.	☐	☐	☐

Air Leakage	C402.5.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐	☐	☐
HVAC	C403.2.1	Mechanical	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.10	Mechanical	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	☐	☐	☐
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐	☐	☐
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 Â°F deadband.	☐	☐	☐
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 Â°F deadband.	☐	☐	☐
HVAC	C403.2.4.1.3	Mechanical	Temperature controls have setpoint overlap restrictions.	☐	☐	☐
HVAC	C403.2.4.2.1, C403.2.4.2.2	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.2.3	Mechanical	Systems include optimum start controls.	☐	☐	☐
HVAC	C403.2.4.5, C403.2.4.6	Mechanical	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	☐	☐	☐
HVAC	C403.2.6.2	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐	☐	☐
HVAC	C403.2.9	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.9.1.3	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.1.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c..	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15ºF, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to <=30 ºF.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.5, C403.4.4.5.1-4	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each zone.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.5	Mechanical	Condenser heat recovery system that can heat water to 85ºF or provide 60% of peak heat rejection is installed for preheating of service hot water.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.6	Mechanical	Hot gas bypass limited to: <=240 kBtu/h - 50% capacity, >240 kBtu/h - 25% capacity	☐	☐	☐
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on non-circulating storage water tanks.	☐	☐	☐

SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.	☐	☐	☐
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.1	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.1, C404.6.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.	☐	☐	☐
Controls	C405.2.1	Interior Lighting	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐	☐	☐
Controls	C405.2.1	Interior Lighting	Occupancy sensors installed in required spaces.	☐	☐	☐
Controls	C405.2.1, C405.2.2.3	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐	☐	☐
Controls	C405.2.2.1	Interior Lighting	Automatic controls to shut off all building lighting installed in all buildings.	☐	☐	☐
Controls	C405.2.3	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐	☐	☐
Controls	C405.2.3, C405.2.3.1, C405.2.3.2	Interior Lighting	Primary sidelighted areas are equipped with required lighting controls.	☐	☐	☐
Controls	C405.2.3, C405.2.3.1, C405.2.3.3	Interior Lighting	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐	☐	☐
Controls	C405.2.4	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	☐	☐	☐
Wattage	C405.2.4	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐	☐	☐
Controls	C405.2.5	Exterior Lighting	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐	☐	☐
Wattage	C405.4.1	Interior Lighting	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐
Mandatory Additional	C406.4	Project	Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2: Luminaires capable of continuous dimming and being addressed individually, <= 8 luminaires controlled in	☐	☐	☐
Mandatory Additional	C406.6	Project	Dedicate outdoor air system efficiency package: Buildings with hydronic and/or multiple-zone HVAC systems are equipped with an independent ventilation system designed to provide >= 100-percent outdoor air to each individual occupied space, as specified by	☐	☐	☐

Mandatory Additional	C406.7, C406.7.1	Project	Enhanced Service Water Heat System efficiency package. One of the following SWH system enhancements must satisfy 60 percent of hot water requirements, or 100 percent if the building otherwise complies with heat recovery per Section C403.4.5: Waste heat re	☐	☐	☐
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	☐	☐	☐
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	☐	☐	☐
Testing	C408.2.3.2	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐	☐	☐

4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy

Post Construction	C303.3, C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐	☐	☐
Post Construction	C303.3, C408.2.5.3	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐	☐	☐
Fenestration	C402.4.2.2	Envelope	Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.	☐	☐	☐
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	☐	☐	☐
Post Construction	C408.2.3.1	Mechanical	HVAC equipment has been tested to ensure proper operation.	☐	☐	☐
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	☐	☐	☐
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐	☐	☐
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐	☐	☐
Post Construction	C408.2.5.1	Interior Lighting	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐	☐	☐
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	☐	☐	☐
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐	☐	☐
Post Construction	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐	☐	☐

EnergyGauge Summit® v6.00

INPUT DATA REPORT

Project Information

Project Name: 18-28

Project Title: Leon Court State Attorney Office

Address: 301 South Monroe Street
Suite 475

State: Florida

Zip: 32301

Owner: State of Florida

Orientation: 0 Deg Clockwise. Walls & Windows will be rotated accordingly

Building Type: Court House

Building Classification: Renovation to existing building

No.of Stories: 1

GrossArea: 5060 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]
1	AHU-13	AHU-13	CONDITIONED	5060.0	1	5060.0

Spaces

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

Attachment H

In Zone: AHU-13									
1	OPEN OFFICI	OPEN OFFICE 443L	Office - Open Plan	320.00	1.00	8.00	1	320.0	2560.0
2	OPEN OFFICI	OPEN OFFICE 443J	Office - Open Plan	140.00	1.00	8.00	1	140.0	1120.0
3	CHIEF ATTY.	CHIEF ATTY. 443H	Office - Enclosed	200.00	1.00	8.00	1	200.0	1600.0
4	CHIEF ATTY.	CHIEF ATTY. 443M	Office - Enclosed	220.00	1.00	8.00	1	220.0	1760.0
5	BREAK 443K	BREAK 443K	Office - Enclosed	195.00	1.00	8.00	1	195.0	1560.0
6	HALL 443I	HALL 443I	Corridor	220.00	1.00	8.00	1	220.0	1760.0
7	OFFICE 443G	OFFICE 443G	Office - Enclosed	120.00	1.00	7.50	1	120.0	900.0
8	OFFICE 443O	OFFICE 443O	Office - Enclosed	110.00	1.00	7.50	1	110.0	825.0
9	OFFICE 443N	OFFICE 443N	Office - Enclosed	120.00	1.00	7.50	1	120.0	900.0
10	OFFICE 443P	OFFICE 443P	Office - Enclosed	110.00	1.00	7.50	1	110.0	825.0
11	OFFICE 443E	OFFICE 443E	Office - Enclosed	125.00	1.00	8.00	1	125.0	1000.0
12	OFFICE 443C	OFFICE 443C	Office - Enclosed	125.00	1.00	8.00	1	125.0	1000.0
13	INVEST. 443I	INVEST. 443D	Office - Enclosed	125.00	1.00	8.00	1	125.0	1000.0
14	FIRE 443U	FIRE 443U	Storage & Warehouse - Inactive Storage	40.00	1.00	7.50	1	40.0	300.0
15	IT 443T	IT 443T	Office - Enclosed	105.00	1.00	8.00	1	105.0	840.0
16	IT 443R	IT 443R	Office - Enclosed	105.00	1.00	8.00	1	105.0	840.0
17	STG 443S	STG 443S	Storage & Warehouse - Inactive Storage	25.00	1.00	7.50	1	25.0	187.5
18	OPEN OFFICI	OPEN OFFICE 443Q	Office - Open Plan	565.00	1.00	8.00	1	565.0	4520.0
19	CONFERENC	CONFERENCE 443B	Conference/meeting (Multiple Functions)	255.00	1.00	8.00	1	255.0	2040.0
20	LOBBY 443	LOBBY 443	Corridor	380.00	1.00	8.00	1	380.0	3040.0
21	COPY 443A	COPY 443A	Office - Enclosed	120.00	1.00	8.00	1	120.0	960.0
22	OPEN OFFICI	OPEN OFFICE 443V	Office - Open Plan	400.00	1.00	8.00	1	400.0	3200.0
23	IT STORAGE	IT STORAGE 443W	Storage & Warehouse - Inactive Storage	110.00	1.00	8.00	1	110.0	880.0
24	VACANT 442	VACANT 442	Office - Enclosed	425.00	1.00	8.00	1	425.0	3400.0
25	PROB. OFF. 4	PROB. OFF. 441A	Office - Enclosed	120.00	1.00	8.00	1	120.0	960.0

Attachment H

26	PROB. OFF. 4PROB. OFF. 441	Office - Enclosed	170.00	1.00	8.00	1	170.0	1360.0
27	VACANT 442/VACANT 442A	Office - Enclosed	110.00	1.00	8.00	1	110.0	880.0

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts
In Zone: AHU-13							
In Space: OPEN OFFICE 443L							
1	LED	General Lighting	3	39	117	Occupancy sensor without Daylighting	2
In Space: OPEN OFFICE 443J							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2
In Space: CHIEF ATTY. 443H							
1	LED	General Lighting	4	39	156	Occupancy sensor without Daylighting	2
In Space: CHIEF ATTY. 443M							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2
In Space: BREAK 443K							
1	LED	General Lighting	6	6	36	Occupancy sensor without Daylighting	2
In Space: HALL 443I							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2
In Space: OFFICE 443G							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2
In Space: OFFICE 443O							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2
In Space: OFFICE 443N							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2
In Space: OFFICE 443P							
1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2

Attachment H

In Space:	**OFFICE 443E**							
	1 LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**OFFICE 443C**							
	1 LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**INVEST. 443D**							
	1 LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**FIRE 443U**							
	1 LED	General Lighting	1	6	6	Manual On/Off	1	☐
In Space:	**IT 443T**							
	1 LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**IT 443R**							
	1 LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**STG 443S**							
	1 LED	General Lighting	1	6	6	Manual On/Off	1	☐
In Space:	**OPEN OFFICE 443Q**							
	1 LED	General Lighting	8	39	312	Occupancy sensor without Daylighting	2	☐
In Space:	**CONFERENCE 443B**							
	1 LED	General Lighting	6	6	36	Occupancy sensor without Daylighting	2	☐
	2 LED	General Lighting	1	5	5	Occupancy sensor without Daylighting	2	☐
In Space:	**LOBBY 443**							
	1 LED	General Lighting	6	6	36	Occupancy sensor without Daylighting	2	☐
	2 LED	General Lighting	4	39	156	Occupancy sensor without Daylighting	2	☐
In Space:	**COPY 443A**							
	1 LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**OPEN OFFICE 443V**							
	1 Compact Fluorescent	General Lighting	6	39	234	Occupancy sensor without Daylighting	2	☐
In Space:	**IT STORAGE 443W**							
	1 LED	General Lighting	2	39	78	Manual On/Off	1	☐

Attachment H

In Space:	**VACANT 442**								
	1	Compact Fluorescent	General Lighting	6	64	384	Manual On/Off	1	☐
In Space:	**PROB. OFF. 441A**								
	1	LED	General Lighting	2	39	78	Occupancy sensor without Daylighting	2	☐
In Space:	**PROB. OFF. 441**								
	1	LED	General Lighting	4	39	156	Occupancy sensor without Daylighting	2	☐
In Space:	**VACANT 442A**								
	1	Compact Fluorescent	General Lighting	1	32	32	Manual On/Off	1	☐

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Orientation	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**AHU-13**											
1	EAST WALL	18-28 Wall	110.00	12.00	1	1320.0	East	0.0800	2.890	24.90	12.5	☐

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multiplier	Total Area [sf]	
In Zone:	**AHU-13**										
In Wall:	**EAST WALL**										
1	EAST WINDOW	East	No	1.2500	0.35	0.76	77.08	11.99	1	924.2	☐

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone:												
In Wall:												☐

Attachment H

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:	**AHU-13**											
1	ROOF	18-28 Roof	10.00	511.00	1	5110.0	0.00	0.0800	2.89	24.90	12.5	☐

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:											☐

Systems

AHU-13 **System 1** **Variable Air Volume Built-up System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	358500.00			☐
2	Heating System	262200.00			☐
3	Air Handling System -Supply	10440.00	0.50		☐

Attachment H

Plant

	Equipment	Category	Size	Inst.No	Eff.	IPLV
1	Open centrifugal, chiller	Cooling Equipment	375.0 [Tons]	3	6.30 [COP]	7.10
2	Hot Water Boiler (Fuel)	Heating Equipment	4.0 [Million Btu/h]	2	82.00 [AFUE or Ec]	

Water Heaters

W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT

Attachment H

18-28 Window	User Defined	1	1.2500	0.3480	0.7600	

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]

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]
1060	18-28 Wall	Yes	No	0.08	2.89	24.90	12.5

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]
1061	18-28 Roof	Yes	No	0.08	2.89	24.90	12.5

Attachment H

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

Attachment H

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	

Attachment H

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

412 412 Absolute Florida Commercial Electric Rate

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
3/31/1989	ShHr413	ShHr413	ShHr413	ShHr413	ShHr413	ShHr415	ShHr415	ShHr415
10/31/1989	ShHr412	ShHr412	ShHr412	ShHr412	ShHr412	ShHr412	ShHr414	ShHr414
12/31/1989	ShHr413	ShHr413	ShHr413	ShHr413	ShHr413	ShHr415	ShHr415	ShHr415

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

Attachment H

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

Attachment H

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	OFF
On-Off Null Schedule			OFF	OFF	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	0
Fraction Null Schedule			0	0	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	0
Absolute Null Schedule			0	0	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	78
Set point 78 F All Day			78	78	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	70
Set Point 70 F All Day			70	70	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	99
Set point 99			99	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	45
Set Point 55			45	45	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	ON
Always On schedule			ON	ON	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	OFF
Always Off Schedule			OFF	OFF	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	0.03804
Florida Avg. Week Day Summer I			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	0.0686	0.03804	0.03804	0.03804	0.03804

Attachment H

413 ShHr413 Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.0686	0.0686	0.0686
Florida Avg. Week Day Winter El	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 I	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 El	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

Attachment H

510 ShHr510 Fraction	0.15	0.15	0.15	0.15	0.15	0.2	0.35	0.6
ACM Nonres Equipment Weekda	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 Saturda	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 Weekda	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

Attachment H

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
#### 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
#### 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

Attachment H