	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 ASHRAE 90.1-2010 - Energy Cost Budget Option
	Check List
Appl inclu	ications for compliance with the Florida Building Code, Energy Conservation shall ide:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	ГҮ, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	29,207.0	20,279.0	FAILED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			FAILS
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			No Entry
Met all required compliance from Check List?			Yes/No/NA

	CERTIFICATIONS	
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the
Prepared By:	Building Official:	
Date:	Date:	
I certify that this building is in com	npliance with the FLorida Energy Efficiency Code	
Owner Agent:	Date:	
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy
Architect:	Reg No:	
Electrical Designer:	Reg No:	
Lighting Designer:	Reg No:	
Mechanical Designer:	Reg No:	
Plumbing Designer:	Reg No:	
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.	

Bu	ilding End Uses	
	1) Proposed	2) Baseline
1	1,852.80	1,300.90
	\$29,207	\$20,279
ELECTRICITY(MBtu/kWh/\$)	1,852.80	1,300.90
	542878	381187
	\$29,207	\$20,279
AREA LIGHTS	176.40	211.60
	51679	62012
	\$2,780	\$3,299
MISC EQUIPMT	337.50	337.50
	98896	98896
	\$5,321	\$5,261
PUMPS & MISC	0.00	0.00
	10	6
	\$1	\$0
SPACE COOL	639.40	473.00
	187335	138582
	\$10,079	\$7,373
SPACE HEAT	1.20	0.00
	349	9
	\$19	\$0
VENT FANS	698.30	278.80
	204609	81682
	\$11,008	\$4,345
Applied: None		FAILS
Criteria = 20279		

Project: TAM A1	
Title: TAM Prototype Building A1	
Type: Office	

(WEA File: FL_I	MIAMI_INTL	_AP.tm3)						
		External L	ighting C	omplianc	e			
Description	(Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELP. (W)		
Ext Light 2	V	Walk way less than 10 feet wide	e Yes	1.00	150.0		150	846
All External	Lighting: 84 check includ	les a excess/Base allowar					FAILS	
(WEA File: FL_N	MIAMI_INTL	<u>AP.tm3)</u> Lighting Cont	rols Com	pliance				
Acronym	Ashrae ID	Description		Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	16	Office - Open Plan Office - Open Plan Office - Open Plan		14,400 2,025 2,025	2 1 1	1	PASSES PASSES PASSES	
Pr0Zo3Sp1 Pr0Zo3Sp1		Office - Open Plan Office - Open Plan		2,025 2,025	1 1		PASSES PASSES	
					PASS	ES		

(WEA File: FL_1	MIAMI_INTL_AP.tm3)						
Pr0Sy1	n Report (Complia Const Syster	No. of Units 1				
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1712720 31717	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy3	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	270450 5008	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy4		Constant Volume Packaged System902			No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	271640 5030	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy5	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

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Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4847	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4465	0.80	0.82			PASSES
						PASSE	s

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

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL-ML/	pe Building A1 AMI_INTL_AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss		Comp iance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	P.	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	in/hr 🛛	Ins Fhick [in]	Req In Thick [i	
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Proiect: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 IECC 2012 - Total Building Performance Compliance Option
	Check List
Appli inclu	ications for compliance with the Florida Building Code, Energy Conservation shall de:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center	-	
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	Y, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary					
Component	Design	Criteria	Result		
Gross Energy Cost (in \$)	27,021.0	17,035.0	FAILED		
LIGHTING CONTROLS			PASSES		
EXTERNAL LIGHTING			FAILS		
HVAC SYSTEM			PASSES		
PLANT			No Entry		
WATER HEATING SYSTEMS			PASSES		
PIPING SYSTEMS			No Entry		
Met all required compliance from Check List?			Yes/No/NA		

CERTIFICATIONS								
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the						
Prepared By:	Building Official:							
Date:	Date:							
I certify that this building is in com	I certify that this building is in compliance with the FLorida Energy Efficiency Code							
Owner Agent:	Date:							
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy						
Architect:	Reg No:							
Electrical Designer:	Reg No:							
Lighting Designer:	Reg No:							
Mechanical Designer:	Reg No:							
Plumbing Designer:	Reg No:							
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.							

Dunt	ling End Uses	
	1) Proposed	2) Baseline
tal	1,717.30	1,288.00
	\$27,021	\$20,041
ELECTRICITY(MBtu/kWh/\$)	1,717.30	1,288.00
	503192	377424
	\$27,021	\$20,041
AREA LIGHTS	176.40	211.60
	51679	62012
	\$2,775	\$3,293
MISC EQUIPMT	337.50	337.50
	98896	98896
	\$5,311	\$5,251
PUMPS & MISC	0.00	0.00
	10	3
	\$1	\$0
SPACE COOL	576.50	472.10
	168921	138329
	\$9,071	\$7,345
SPACE HEAT	1.70	0.00
	507	6
	\$27	\$0
VENT FANS	625.20	266.80
	183179	78178
	\$9,837	\$4,151
· · · · · · · · · · · · · · · · · · ·		FAILS
its Applied: None ng Criteria = 17035		

Project: TAM A1	
Title: TAM Prototype Building A1	
Type: Office	

(WEA File: FL_I	MIAMI_INTL	_AP.tm3)						
		External L	ighting C	omplianc	e			
Description	(Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELP. (W)		
Ext Light 2	V	Walk way less than 10 feet wide	e Yes	1.00	150.0		150	846
All External	Lighting: 84 check includ	les a excess/Base allowar					FAILS	
(WEA File: FL_N	MIAMI_INTL	<u>AP.tm3)</u> Lighting Cont	rols Com	pliance				
Acronym	Ashrae ID	Description		Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	16	Office - Open Plan Office - Open Plan Office - Open Plan		14,400 2,025 2,025	2 1 1	1	PASSES PASSES PASSES	
Pr0Zo3Sp1 Pr0Zo3Sp1		Office - Open Plan Office - Open Plan		2,025 2,025	1 1		PASSES PASSES	
					PASS	ES		

(WEA File: FL_1	MIAMI_INTL_AP.tm3)							
Pr0Sy1	n Report (Report Compliance Constant Volume Packaged System902				No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES	
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1712720 31717	1.00 0.80	1.00 0.82			PASSES PASSES	
Pr0Sy3	System 1			tant Volume m902	Packaged	N	lo. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES	
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	270450 5008	1.00 0.80	1.00 0.82			PASSES PASSES	
Pr0Sy4		Constant Volume Packaged System902		Packaged	N	lo. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES	
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	271640 5030	1.00 0.80	1.00 0.82			PASSES PASSES	
Pr0Sy5 System 1			Constant Volume Packaged System902		No. of Units 1			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	

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Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4847	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4465	0.80	0.82			PASSES
						PASSE	s

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

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL-ML/	pe Building A1 AMI_INTL_AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss		Comp iance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	P.	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	in/hr 🛛	Ins Fhick [in]	Req In Thick [i	
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Proiect: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 ASHRAE 90.1-2010 - Prescriptive Compliance Option
	Check List
Appl inclu	lications for compliance with the Florida Building Code, Energy Conservation shall ide:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
	Florida Solar Energy Center	Description	n nit i rototype Banang i ri
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	Y, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary						
Component	Design	Criteria	Result			
ENVELOPE PRESCRIPTIVE			FAILS			
LIGHTING POWER	16,875.0	20,250.0	PASSES			
LIGHTING CONTROLS			PASSES			
EXTERNAL LIGHTING			FAILS			
HVAC SYSTEM			PASSES			
PLANT			No Entry			
WATER HEATING SYSTEMS			PASSES			
PIPING SYSTEMS			No Entry			
Met all required compliance from Check List?			Yes/No/NA			

CERTIFICATIONS						
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the				
Prepared By:	Building Official:					
Date:	Date:					
I certify that this building is in com	pliance with the FLorida Energy Efficiency Code					
Owner Agent:	Date:					
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy				
Architect:	Reg No:					
Electrical Designer:	Reg No:					
Lighting Designer:	Reg No:					
Mechanical Designer:	Reg No:					
Plumbing Designer:	Reg No:					
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.					

Item	Zone	Description	Design	Criteria Meet Req
Glass	TAM A1	East glass area must be less than or equal to	550.000	550.000 Yes
		South glass area		
Glass	TAM A1	West glass area must be less than or equal to South glass area	550.000	550.000 Yes
Glass	Interior	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	Interior	Percent Skylight Max allowed (%)	15.624	5.000 No
Pr0Zo2Rf1	Interior	Exterior Roof UValue Max allowed	.370	0.063 No
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1	Skylight: SHGC Max allowed	.250	0.190 No
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1Sk2	Skylight: UValue Max allowed	1.000	1.360 Yes
Glass	Perimeter A	Percent glass Max allowed (%)	30.556	40.000 Yes
Pr0Zo3Wa2	Perimeter A	Exterior Wall: UValue Max allowed	.460	0.089 No
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: UValue Max allowed	.900	1.200 Yes
Skylights	Perimeter A	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof UValue Max allowed	.370	0.063 No
Glass	Perimeter B	Percent glass Max allowed (%)	30.556	40.000 Yes
Pr0Zo5Wa2	Perimeter B	Exterior Wall: UValue Max allowed	.460	0.089 No
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: UValue Max allowed	.900	1.200 Yes
Skylights	Perimeter B	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof UValue Max allowed	.370	0.063 No
Glass	Perimeter C	Percent glass Max allowed (%)	26.772	40.000 Yes
Pr0Zo6Wa1	Perimeter C	Exterior Wall: UValue Max allowed	.460	0.089 No
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: UValue Max allowed	.900	1.200 Yes
Pr0Zo6Wa3	Perimeter C	Exterior Wall: UValue Max allowed	1.110	0.089 No
Skylights	Perimeter C	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof UValue Max allowed	.370	0.063 No
Glass	Perimeter D	Percent glass Max allowed (%)	30.556	40.000 Yes
Pr0Zo7Wa1	Perimeter D	Exterior Wall: UValue Max allowed	.460	0.089 No
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: UValue Max allowed	.900	1.200 Yes
Skylights	Perimeter D	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo7Rf1	Perimeter D	Exterior Roof UValue Max allowed	.370	0.063 No

Prescriptive Envelope Compliance

Project: TAM A1 Title: TAM Prototype Type: Office (WEA File: FL_MIA)	MI_INTL_AP.tm3)					
Description	External Li Category	ghting C Tradable?	Complianc Allowance (W/Unit)	e Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	150.0	150	
All External Ligh	s: 846 (W) Allowance for Tradab ting: 846 (W) k includes a excess/Base allowan		· ·	Ľ	FAI	LS
Project: TAM A1 Title: TAM Prototype Type: Office	Building A1					
(WEA File: FL_MIAN	MI_INTL_AP.tm3)	~				

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Pr0Zo2Sp1	16	Office - Open Plan	14,400	12.0	1	10800	10800	12,960
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Design :	1	6875 (W)					PASS	ES
Effective:	1	6875 (W)						

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Lighting Controls Compliance						
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Pr0Zo2Sp1	16	Office - Open Plan	14,400	2	2	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
				PAS	SES	

(WEA File: FL_1	MIAMI_INTL_AP.tm3)						
Pr0Sy1	System 1	n Report (Const	ance tant Volume m902	Packaged	N	o. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1712720 31717	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy3	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	270450 5008	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy4	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	271640 5030	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy5	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

 ${\it EnergyGauge Summit} {\it \circledast Fla/Com-2014. Section 506.4 Compliant Software. Effective Date: June 30, 2015}$

Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4847	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4465	0.80	0.82			PASSES
						PASSE	s

			Plant	Comp	liance				
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL-ML/	pe Building A1 AMI_INTL_AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss		Comp iance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	P.	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	in/hr 🛛	Ins Fhick [in]	Req In Thick [i	
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Proiect: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 IECC 2012 - Prescriptive Compliance Option
	Check List
Appl inclu	ications for compliance with the Florida Building Code, Energy Conservation shall de:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	TY, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary					
Component	Design	Criteria	Result		
ENVELOPE PRESCRIPTIVE			FAILS		
Additional Effficiency Prescriptive Option			Failed		
LIGHTING POWER	16,875.0	20,250.0	PASSES		
LIGHTING CONTROLS			PASSES		
EXTERNAL LIGHTING			FAILS		
HVAC SYSTEM			PASSES		
PLANT			No Entry		
WATER HEATING SYSTEMS			PASSES		
PIPING SYSTEMS			No Entry		
Met all required compliance from Check List?			Yes/No/NA		

CERTIFICATIONS						
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the				
Prepared By:	Building Official:					
Date:	Date:					
I certify that this building is in com	pliance with the FLorida Energy Efficiency Code					
Owner Agent:	Date:					
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy				
Architect:	Reg No:					
Electrical Designer:	Reg No:					
Lighting Designer:	Reg No:					
Mechanical Designer:	Reg No:					
Plumbing Designer:	Reg No:					
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.					

Item	Zone	Description	Design	Criteria Meet Req.
Class	To do alterna		000	20.000 Mar
Glass	Interior	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	Interior	Percent Skylight Max allowed (%)	15.624	3.000 No
Pr0Zo2Rf1	Interior	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo2Rf1	Interior	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo2Rf1	Interior	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1	Skylight: SHGC Max allowed	.250	0.350 Yes
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1Sk2	Skylight: UValue Max allowed	1.000	0.750 No
Glass	Perimeter A	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo3Wa2	Perimeter A	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	Perimeter A	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo3Rf1	Perimeter A	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter B	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo5Wa2	Perimeter B	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	Perimeter B	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo5Rf1	Perimeter B	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter C	Percent glass Max allowed (%)	26.772	30.000 Yes
Pr0Zo6Wa1	Perimeter C	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: UValue Max allowed	.900	0.500 No
Pr0Zo6Wa3	Perimeter C	Exterior Wall: UValue Max allowed	1.110	0.064 No
Skylights	Perimeter C	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo6Rf1	Perimeter C	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter D	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo7Wa1	Perimeter D	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	Perimeter D	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo7Rf1	Perimeter D	Exterior Roof UValue Max allowed	.370	0.048 No

Prescriptive Envelope Compliance

EnergyGauge Summit® Fla/Com-2014. Section 506.4 Compliant Software. Effective Date: June 30, 2015

	Р		Exterior Roof Absorptance	e (3-year a	ged) Max	.400	0.450	Yes
Pr0Zo7Rf1	Р	erimeter D	allowed Exterior Roof Emissivity (Required	3-year age	ed) Min	.900	0.750	Yes
DOES N	OT me	et Prescriptive	Envelope Requireme	ents FA	AILS			
Type: Office	Prototyp e	e Building A1 MI INTL AP.tm	3)					
			External Lig	nting C	omplianc	e		
Description	n	Categor	y Ti	radable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	2	Walk wa	ay less than 10 feet wide	Yes	1.00	150.0	150	84
Project: TAN								
Title: TAM I Type: Office	M A1 Prototyp e	e Building A1 MI_INTL_AP.tm		ver Cor	npliance			
Title: TAM 1 Type: Office (WEA File: 1	M A1 Prototyp e	e Building A1	13) Lighting Pov Area (sq.ft)	ver Coi Height (ft)	npliance No. of Spaces	Design (W)	Effective (W)	Allowand (W)
Title: TAM Type: Office (WEA File:] Space	M A1 Prototyp E FL_MIA Ashrae	e Building A1 MI_INTL_AP.tm	Lighting Pov Area (sq.ft)	Height	No. of	-		Allowand (W) 12,960
Title: TAM 1 Type: Office (WEA File: 1 Space Pr0Zo2Sp1	M A1 Prototyp S FL_MIA Ashrae ID	e Building A1 .MI_INTL_AP.tm Description	Lighting Pov Area (sq.ft) an 14,400	Height (ft)	No. of Spaces	(W)	(W)	(W)
Title: TAM 1 Type: Office (WEA File: 1 Space Pr0Zo2Sp1 Pr0Zo3Sp1	M A1 Prototyp FL_MIA Ashrae ID 16	e Building A1 MI_INTL_AP.tm Description Office - Open Pl	Lighting Pow Area (sq.ft) an 14,400 an 2,025	Height (ft) 12.0	No. of Spaces 1	(W) 10800	(W) 10800	(W) 12,960
Title: TAM [Type: Office (WEA File:] Space Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	M A1 Prototyp FL_MIA Ashrae ID 16 16	e Building A1 MI_INTL_AP.tm Description Office - Open Pl Office - Open Pl	Lighting Pov Area (sq.ft) an 14,400 an 2,025 an 2,025	Height (ft) 12.0 12.0	No. of Spaces 1 1	(W) 10800 1519	(W) 10800 1519	(W) 12,960 1,823
Title: TAM I Type: Office (WEA File: 1 Space Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	M A1 Prototyp FL_MIA Ashrae ID 16 16 16	e Building A1 MI_INTL_AP.tm Description Office - Open Pl Office - Open Pl Office - Open Pl	Lighting Pov Area (sq.ft) an 14,400 an 2,025 an 2,025 an 2,025	Height (ft) 12.0 12.0 12.0	No. of Spaces	(W) 10800 1519 1519	(W) 10800 1519 1519	(W) 12,960 1,823 1,823
Title: TAM] Type: Office (WEA File:]	M A1 Prototyp FL_MIA Ashrae ID 16 16 16 16 16 16 16 16	e Building A1 MI_INTL_AP.tm Description Office - Open Pl Office - Open Pl Office - Open Pl Office - Open Pl	Lighting Pov Area (sq.ft) an 14,400 an 2,025 an 2,025 an 2,025	Height (ft) 12.0 12.0 12.0 12.0	No. of Spaces	(W) 10800 1519 1519 1519	(W) 10800 1519 1519 1519	 (W) 12,960 1,823 1,823 1,823 1,823

Lighting Controls Compliance						
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Pr0Zo2Sp1	16	Office - Open Plan	14,400	2	2	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
				PAS	SES	

(WEA File: FL_1	MIAMI_INTL_AP.tm3)						
Pr0Sy1	System 1	n Report (Const	ance tant Volume m902	No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1712720 31717	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy3	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	270450 5008	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy4	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	271640 5030	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy5	System 1			tant Volume m902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

 ${\it EnergyGauge Summit} {\it \circledast Fla/Com-2014. Section 506.4 Compliant Software. Effective Date: June 30, 2015}$

Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4847	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4465	0.80	0.82			PASSES
						PASSE	s

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

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL/MI/	pe Building A1 AMI_INTL_AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss		omp ance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	PA	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	in/hr 🛛	Ins Fhick [in]	Req Ins Thick [in	
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Proiect: TAM A	1						

DOE Based Sizing

PROJECT SUMMARY

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Weather File:	FL_MIAMI_INTL_AP.tm3		
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	89.7
		If different, write in:	

CERTIFICATIONS						
I hereby certify that the plans and	I specifications covered by this calculation are in compliance	e as required by				
the authority of jurisdiction	······································	,				
Prepared By:	Building Official:					
Date:	Date:					
I certify that this building is in com	npliance as required by the authority of jurisdiction					
Owner Agent:	Date:					
If required by law, I hereby certify jurisdiction	r (*) that the system design is in compliance as required by the system design is in compliance as required by the system of	he authority of				
Architect:	Reg No:					
Electrical Designer:	Reg No:					
Lighting Designer:	Reg No:					
Mechanical Designer:	Reg No:					
Plumbing Designer:	Reg No:					
	nen law requires design to be performed by registered desig mbers may be used where all relevant information is contair					

DOE 2.1 E Based Sized Parameters (Beta Feature)

System Name	System Type	
Pr0Sy1	System 1	
<u>Component</u> Cooling System Heating System	Sized Value 930326 1712720 31717	<u>Units</u> BTU/HR Btu/h CFM
All Handling System -Supply	31717	CI M
Pr0Sy3	System 1	
<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 144292 270450 5008	<u>Units</u> BTU/HR Btu/h CFM
Pr0Sy4	System 1	
<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 146944 271640 5030	<u>Units</u> BTU/HR Btu/h CFM
Pr0Sy5	System 1	
<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 142287 261750 4847	<u>Units</u> BTU/HR Btu/h CFM
Pr0Sy2	System 1	
<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 130748 241140 4465	<u>Units</u> BTU/HR Btu/h CFM
	Pr0Sy1 <u>Component</u> <u>Cooling System</u> <u>Heating System</u> <u>Air Handling System - Supply</u> Pr0Sy3 <u>Component</u> <u>Cooling System</u> <u>Heating System</u> <u>Sooling System</u> <u>Heating System</u> <u>System</u> <u>System</u> <u>Cooling System</u> <u>Heating System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>Sooling System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>System</u> <u>S</u>	Pr0Sy1System 1ComponentSized ValueCooling System930326Heating System1712720Air Handling System -Supply31717Pr0Sy3System 1ComponentSized ValueCooling System144292Cooling System144292Heating System270450Air Handling System -Supply5008Pr0Sy4System 1ComponentSized ValueCooling System146944Heating System271640Air Handling System -Supply5030Pr0Sy5System 1Cooling System142287Air Handling System -Supply5030Pr0Sy5System 1Cooling System142287Air Handling System -Supply261750Air Handling System -Supply4847Pr0Sy2System 1Cooling System130748Heating System130748Heating System241140

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 ASHRAE 90.1-2010 - Energy Cost Budget Option
	Check List
Appl inclu	ications for compliance with the Florida Building Code, Energy Conservation shall ide:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center	-	
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	ORLANDO, ORANGE COUNTY	7, FL (582100)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	82.6
		If different, write in:	

Compliance Summary				
Component	Design	Criteria	Result	
Gross Energy Cost (in \$)	28,054.0	18,308.0	FAILED	
LIGHTING CONTROLS			PASSES	
EXTERNAL LIGHTING			FAILS	
HVAC SYSTEM			PASSES	
PLANT			No Entry	
WATER HEATING SYSTEMS			PASSES	
PIPING SYSTEMS			No Entry	
Met all required compliance from Check List?			Yes/No/NA	

	CERTIFICATIONS	
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the
Prepared By:	Building Official:	
Date:	Date:	
I certify that this building is in com	npliance with the FLorida Energy Efficiency Code	
Owner Agent:	Date:	
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy
Architect:	Reg No:	
Electrical Designer:	Reg No:	
Lighting Designer:	Reg No:	
Mechanical Designer:	Reg No:	
Plumbing Designer:	Reg No:	
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.	

Dui	lding End Uses	
	1) Proposed	2) Baseline
tal	1,766.60	1,174.40
	\$28,054	\$18,308
ELECTRICITY(MBtu/kWh/\$)	1,766.60	1,174.40
	517603	344130
	\$28,054	\$18,308
AREA LIGHTS	176.40	211.60
	51679	62012
	\$2,801	\$3,299
MISC EQUIPMT	337.50	337.50
	98896	98896
	\$5,360	\$5,261
PUMPS & MISC	0.30	0.20
	84	72
	\$5	\$4
SPACE COOL	438.30	332.10
	128420	97293
	\$6,960	\$5,176
SPACE HEAT	67.40	7.60
	19737	2230
	\$1,070	\$119
VENT FANS	746.70	285.40
	218787	83627
	\$11,858	\$4,449
lits Applied: None		FAILS
ing Criteria = 18308		1

Project: TAM A1 Title: TAM Proto Type: Office (WEA File: FL C							
	External L	ighting C	omplianc	e			
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)		LP W)
Ext Light 2	Walk way less than 10 feet wid	le Yes	1.00	150.0	1	50	846
All External I Complicance c Project: TAM A1 Title: TAM Protor Type: Office		Ň				FAILS	
(WEA File: FL_O	ORLANDO_INTL_ARPT.tm3) Lighting Cont	trols Com	pliance				
Acronym	Ashrae Description ID		Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	 16 Office - Open Plan 		14,400 2,025 2,025 2,025 2,025 2,025	2 1 1 1	1 1 1	PASSES PASSES PASSES PASSES PASSES PASSES	
				PASS	ES		

Project: TAM A1 Title: TAM Prototype Building A1 Type: Office OVE A File: EL OPLANDO INTL ARPT (m3)

(WEA File: FL_	ORLANDO_INTL_ARPT.tm3)						
Pr0Sy1			Complia Const Syster	No. of Units 1			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	990759	12.80	9.70	12.90	9.80	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1847200 34207	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy3	System 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	155641	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	291730 5402	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy4	System 1			ant Volume n902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	158878	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	300660 5568	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy5	System 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	148516	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	279160	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5170	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	138439	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	257890	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4776	0.80	0.82			PASSES
						PASSE	s

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

Project: TAM A1 Title: TAM Prototyp	be Building A1					
Type: Office		n ²)				
(WEA FILE: FL_OK	(WEA File: FL_ORLANDO_INTL_ARPT.tm3) Water Heater Compliance					
Description	Туре	Category	0	Min Desigr Eff Loss	n Max Comp Loss liance	
Water Heater 1	Electric water heater	<pre>> 12 [kW]</pre>	0.89	290.00	0 293.40 PASSES	
					PASSES	
		Dining Sug	am Camalia			
		Piping Syst	tem Complia	nce		
Category			erating Ins Con Femp [Btu-in/I [F] .SF.F]		Req Ins Compliance 1] Thick [in]	
			[None	
Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL_OR	pe Building A1 LANDO_INTL_ARPT.tr	n3)				
		Other Require	ed Complianc	e		
Category	Section	Requirement (write N/	A in box if not app	olicable)	Check	
Proiect: TAM A	1					

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 IECC 2012 - Total Building Performance Compliance Option
	Check List
Appli inclu	ications for compliance with the Florida Building Code, Energy Conservation shall de:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center	-	
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	ORLANDO, ORANGE COUNTY	Z, FL (582100)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	82.6
		If different, write in:	

Compliance Summary					
Component	Design	Criteria	Result		
Gross Energy Cost (in \$)	26,140.0	15,612.0	FAILED		
LIGHTING CONTROLS			PASSES		
EXTERNAL LIGHTING			FAILS		
HVAC SYSTEM			PASSES		
PLANT			No Entry		
WATER HEATING SYSTEMS			PASSES		
PIPING SYSTEMS			No Entry		
Met all required compliance from Check List?			Yes/No/NA		

	CERTIFICATIONS	
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the
Prepared By:	Building Official:	
Date:	Date:	
I certify that this building is in com	npliance with the FLorida Energy Efficiency Code	
Owner Agent:	Date:	
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy
Architect:	Reg No:	
Electrical Designer:	Reg No:	
Lighting Designer:	Reg No:	
Mechanical Designer:	Reg No:	
Plumbing Designer:	Reg No:	
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.	

EA File: FL_ORLANDO_INTL_ARPT.tm3) Build	ling End Uses	
	1) Proposed	2) Baseline
otal	1,649.10	1,178.20
	\$26,140	\$18,367
ELECTRICITY(MBtu/kWh/\$)	1,649.10	1,178.20
	483176	345238
	\$26,140	\$18,367
AREA LIGHTS	176.40	211.60
	51679	62012
	\$2,796	\$3,299
MISC EQUIPMT	337.50	337.50
	98896	98896
	\$5,350	\$5,261
PUMPS & MISC	0.30	0.20
	90	69
	\$5	\$4
SPACE COOL	382.20	340.10
	111979	99663
	\$6,058	\$5,302
SPACE HEAT	82.80	4.80
	24247	1398
	\$1,312	\$74
VENT FANS	669.90	284.00
	196285	83200
	\$10,619	\$4,426
dits Applied: None		FAILS
sing Criteria = 15612 ign (including any credits) = 26140 sing requires Proposed Building cost to be at 1 eline cost. This Proposed Building is at 142.3%		L

Project: TAM A1 Title: TAM Proto Type: Office (WEA File: FL C							
	External L	ighting C	omplianc	e			
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)		LP W)
Ext Light 2	Walk way less than 10 feet wid	le Yes	1.00	150.0	1	50	846
All External I Complicance c Project: TAM A1 Title: TAM Protor Type: Office		Ň				FAILS	
(WEA File: FL_O	ORLANDO_INTL_ARPT.tm3) Lighting Cont	trols Com	pliance				
Acronym	Ashrae Description ID		Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	 16 Office - Open Plan 		14,400 2,025 2,025 2,025 2,025 2,025	2 1 1 1	1 1 1	PASSES PASSES PASSES PASSES PASSES PASSES	
				PASS	ES		

Project: TAM A1 Title: TAM Prototype Building A1 Type: Office OVE A File: EL OPLANDO INTL ARPT (m3)

(WEA File: FL_	ORLANDO_INTL_ARPT.tm3)						
Pr0Sy1	System 1	n Report (Const	ance ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	990759	12.80	9.70	12.90	9.80	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1847200 34207	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy3	System 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	155641	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	291730 5402	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy4	System 1			ant Volume n902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	158878	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	300660 5568	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy5	System 1			ant Volume n902	Packaged	N	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	148516	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	279160	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5170	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	138439	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	257890	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4776	0.80	0.82			PASSES
						PASSE	s

			Plant	t Comp	liance				
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: TAM A1 Title: TAM Prototyp	be Building A1				
Type: Office	LANDO_INTL_ARPT.tn	n ²)			
(WEA FILE: FL_OK	LANDO_INTL_ARF1.u	Water Heater Con	npliance		
Description	Туре	Category	0	Min Desigr Eff Loss	n Max Comp Loss liance
Water Heater 1	Electric water heater	<pre>> 12 [kW]</pre>	0.89	290.00	0 293.40 PASSES
					PASSES
		Dining Sug	am Camalia		
		Piping Syst	tem Complia	nce	
Category			erating Ins Con Femp [Btu-in/I [F] .SF.F]		Req Ins Compliance 1] Thick [in]
			[None
Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL_OR	pe Building A1 LANDO_INTL_ARPT.tr	n3)			
		Other Require	ed Complianc	e	
Category	Section	Requirement (write N/	A in box if not app	olicable)	Check
Proiect: TAM A	1				

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 ASHRAE 90.1-2010 - Prescriptive Compliance Option
	Check List
Appl inclu	lications for compliance with the Florida Building Code, Energy Conservation shall ide:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	ORLANDO, ORANGE COUNT	Y, FL (582100)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	82.6
		If different, write in:	

Compliance Summary					
Component	Design	Criteria	Result		
ENVELOPE PRESCRIPTIVE			FAILS		
LIGHTING POWER	16,875.0	22,050.0	PASSES		
LIGHTING CONTROLS			PASSES		
EXTERNAL LIGHTING			FAILS		
HVAC SYSTEM			PASSES		
PLANT			No Entry		
WATER HEATING SYSTEMS			PASSES		
PIPING SYSTEMS			No Entry		
Met all required compliance from Check List?			Yes/No/NA		

CERTIFICATIONS							
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the					
Prepared By:	Building Official:						
Date:	Date:						
I certify that this building is in com	pliance with the FLorida Energy Efficiency Code						
Owner Agent:	Date:						
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy					
Architect:	Reg No:						
Electrical Designer:	Reg No:						
Lighting Designer:	Reg No:						
Mechanical Designer:	Reg No:						
Plumbing Designer:	Reg No:						
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.						

Project: TAM A1 Title: TAM Prototype Building A1 Type: Office (WEA File: FL ORLANDO INTL ARPT.tm3)

Item Zone Description Design Criteria Meet Reg. Glass TAM A1 550.000 550.000 Yes East glass area must be less than or equal to South glass area Glass TAM A1 West glass area must be less than or equal to 550.000 550.000 Yes South glass area Glass Percent glass Max allowed (%) 40.000 Yes Interior .000 Skylights Interior Percent Skylight Max allowed (%) 15.624 5.000 No Pr0Zo2Rf1 Interior Exterior Roof UValue Max allowed 0.048 No .370 Pr0Zo2Rf1Sk2 0.190 No Pr0Zo2Rf1 Skylight: SHGC Max allowed .250 Pr0Zo2Rf1Sk2 Pr0Zo2Rf1Sk2 Skylight: UValue Max allowed 1.000 1.360 Yes Glass Perimeter A Percent glass Max allowed (%) 30.556 40.000 Yes Pr0Zo3Wa2 Perimeter A Exterior Wall: UValue Max allowed .460 0.089 No Pr0Zo3Wa2Wi1 Pr0Zo3Wa2 Exterior Window: SHGC Max allowed .190 0.250 Yes Pr0Zo3Wa2Wi1 Pr0Zo3Wa2 Exterior Window: UValue Max allowed .600 0.750 Yes Skylights Perimeter A Percent Skylight Max allowed (%) .000 5.000 Yes Pr0Zo3Rf1 Perimeter A Exterior Roof UValue Max allowed .370 0.048 No Glass Perimeter B Percent glass Max allowed (%) 30.556 40.000 Yes Pr0Zo5Wa2 Perimeter B Exterior Wall: UValue Max allowed .460 0.089 No Pr0Zo5Wa2Wi1 Pr0Zo5Wa2 Exterior Window: SHGC Max allowed .190 0.250 Yes Pr0Zo5Wa2Wi1 Pr0Zo5Wa2 Exterior Window: UValue Max allowed .600 0.750 Yes Skylights Perimeter B Percent Skylight Max allowed (%) .000 5.000 Yes Pr0Zo5Rf1 Perimeter B Exterior Roof UValue Max allowed .370 0.048 No Glass Perimeter C Percent glass Max allowed (%) 40.000 Yes 26.772 Pr0Zo6Wa1 Perimeter C Exterior Wall: UValue Max allowed 0.089 No .460 0.250 Yes Pr0Zo6Wa1Wi1 Pr0Zo6Wa1 Exterior Window: SHGC Max allowed .190 Pr0Zo6Wa1Wi1 Pr0Zo6Wa1 Exterior Window: UValue Max allowed .600 0.750 Yes Pr0Zo6Wa3 Perimeter C Exterior Wall: UValue Max allowed 1.110 0.089 No Skylights Perimeter C Percent Skylight Max allowed (%) .000 5.000 Yes Pr0Zo6Rf1 Perimeter C Exterior Roof UValue Max allowed .370 0.048 No Glass Perimeter D Percent glass Max allowed (%) 30.556 40.000 Yes Pr0Zo7Wa1 Perimeter D Exterior Wall: UValue Max allowed .460 0.089 No Pr0Zo7Wa1Wi1 Pr0Zo7Wa1 Exterior Window: SHGC Max allowed .190 0.250 Yes Pr0Zo7Wa1Wi1 Exterior Window: UValue Max allowed Pr0Zo7Wa1 .600 0.750 Yes Skylights Perimeter D Percent Skylight Max allowed (%) .000 5.000 Yes Pr0Zo7Rf1 Exterior Roof UValue Max allowed 0.048 No Perimeter D .370 **DOES NOT meet Prescriptive Envelope Requirements -- FAILS**

Prescriptive Envelope Compliance

(WEA File:	e	e Building A1 . <u>ANDO_INTL_ARPT.tm3)</u> E x	ternal Ligh	ting C	omplianc	e		
Descriptio	on	Category	0	adable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light	2	Walk way less than	n 10 feet wide	Yes	1.00	150.0	150	840
All Exter	nal Lig	es: 846 (W) Allowance : hting: 846 (W) ck includes a excess/Ba		,	,	[FAI	LS
Project: TA	MA1							
Title: TAM Type: Offic	Prototyp e FL_ORL Ashrae	e Building A1 <u>ANDO_INTL_ARPT.tm3)</u> Li Description	ighting Pow Area	Height	No. of	Design	Effective	
Title: TAM Type: Offic (WEA File: Space	Prototyp e FL_ORI Ashrae ID	LANDO_INTL_ARPT.tm3)	Area (sq.ft)	Height (ft)	No. of Spaces	(W)	(W)	(W)
Title: TAM Type: Offic (WEA File: Space Pr0Zo2Sp1	Prototyp e FL_ORI Ashrae ID 16	LANDO_INTL_ARPT.tm3) Li Description Office - Open Plan	Area (sq.ft) 14,400	Height (ft) 12.0	No. of Spaces 1	(W) 10800	(W) 10800	(W) 14,112
Title: TAM Type: Offic (WEA File: Space Pr0Zo2Sp1 Pr0Zo3Sp1	Prototyp e FL_ORI Ashrae ID 16 16	ANDO_INTL_ARPT.tm3) Li Description Office - Open Plan Office - Open Plan	Area (sq.ft) 14,400 2,025	Height (ft) 12.0 12.0	No. of Spaces 1 1	(W) 10800 1519	(W) 10800 1519	(W) 14,112 1,985
Title: TAM Type: Offic (WEA File: Space Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	Prototyp e FL_ORI Ashrae ID 16 16 16	ANDO_INTL_ARPT.tm3) Li Description Office - Open Plan Office - Open Plan Office - Open Plan Office - Open Plan	Area (sq.ft) 14,400 2,025 2,025	Height (ft) 12.0 12.0 12.0	No. of Spaces 1 1 1	(W) 10800 1519 1519	(W) 10800 1519 1519	14,112 1,985 1,985
Title: TAM Type: Offic (WEA File: Space Pr0Zo2Sp1 Pr0Zo3Sp1	Prototyp e FL_ORI Ashrae ID 16 16	ANDO_INTL_ARPT.tm3) Li Description Office - Open Plan Office - Open Plan	Area (sq.ft) 14,400 2,025	Height (ft) 12.0 12.0	No. of Spaces 1 1	(W) 10800 1519	(W) 10800 1519	(W) 14,112 1,985

Project: TAM A1 Title: TAM Prototype Building A1 Type: Office (WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Acronym	Ashrae	Description	Area	Design	Min	Compli-
	ID		(sq.ft)	СР	СР	ance
Pr0Zo2Sp1	16 (Office - Open Plan	14,400	2	2	PASSES
Pr0Zo3Sp1	16 0	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16 0	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16 0	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16 0	Office - Open Plan	2,025	1	1	PASSES
				PAS	SES	

Project: TAM A1 Title: TAM Prototype Building A1 Type: Office (WEA File: FL_ORLANDO_INTL_ARPT.tm3)

(WEA File: FL_	ORLANDO_INTL_ARPT.tm3)						
Pr0Sy1	-			n Report Compliance Constant Volume Packaged System902			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	990759	12.80	9.70	12.90	9.80	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	1847200 34207	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy3	System 1			ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	155641	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	291730 5402	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy4 System 1			Constant Volume Packaged System902		Ν	lo. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	158878	12.80	11.00	12.90	11.20	PASSES
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) -	300660 5568	1.00 0.80	1.00 0.82			PASSES PASSES
Pr0Sy5	System 1			ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	148516	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	279160	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5170	0.80	0.82			PASSES
Pr0Sy2 Sy	stem 1			ant Volume n902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	138439	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	257890	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	4776	0.80	0.82			PASSES
						PASSE	0

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

Project: TAM A1 Title: TAM Prototyp	be Building A1						
Type: Office		n ²)					
(WEA File: FL_ORLANDO_INTL_ARPT.tm3) Water Heater Compliance							
Description	Туре	Category	0	Min Desigr Eff Loss	n Max Comp Loss liance		
Water Heater 1	Electric water heater	<pre>> 12 [kW]</pre>	0.89	290.00	0 293.40 PASSES		
					PASSES		
		Dining Sug	am Camalia				
		Piping Syst	tem Complia	nce			
Category			erating Ins Con Femp [Btu-in/I [F] .SF.F]		Req Ins Compliance 1] Thick [in]		
			[None		
Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL_OR	pe Building A1 LANDO_INTL_ARPT.tr	n3)					
		Other Require	ed Complianc	e			
Category	Section	Requirement (write N/	A in box if not app	olicable)	Check		
Proiect: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 IECC 2012 - Prescriptive Compliance Option
	Check List
Appl inclu	ications for compliance with the Florida Building Code, Energy Conservation shall de:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	DesProjSizing	Description	TAM Prototype Building A1
	Florida Solar Energy Center	Description.	In the Prototype Dunaning Pri
	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	ORLANDO, ORANGE COUNTY	7, FL (582100)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	40.2
		If different, write in:	

Compliance Summary						
Component	Design	Criteria	Result			
ENVELOPE PRESCRIPTIVE			FAILS			
Additional Effficiency Prescriptive Option			Failed			
LIGHTING POWER	20,250.0	20,250.0	PASSES			
LIGHTING CONTROLS			FAILS			
EXTERNAL LIGHTING			FAILS			
HVAC SYSTEM			PASSES			
PLANT			No Entry			
WATER HEATING SYSTEMS			PASSES			
PIPING SYSTEMS			No Entry			
Met all required compliance from Check List?			Yes/No/NA			

CERTIFICATIONS							
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the					
Prepared By:	Building Official:						
Date:	Date:						
I certify that this building is in com	pliance with the FLorida Energy Efficiency Code						
Owner Agent:	Date:						
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy					
Architect:	Reg No:						
Electrical Designer:	Reg No:						
Lighting Designer:	Reg No:						
Mechanical Designer:	Reg No:						
Plumbing Designer:	Reg No:						
	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.						

Project: DesProjSizing Title: TAM Prototype Building A1 Type: Office (WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Interior	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	Interior	Percent Skylight Max allowed (%)	.576	3.000 Yes
Pr0Zo2Rf1	Interior	Exterior Roof UValue Max allowed	.048	0.048 Yes
Pr0Zo2Rf1	Interior	Exterior Roof Absorptance (3-year aged) Max	.750	0.450 No
1102021011	interior	allowed	.150	0.150 110
Pr0Zo2Rf1	Interior	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1	Skylight: SHGC Max allowed	.350	0.350 Yes
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1Sk2	Skylight: UValue Max allowed	.650	0.650 Yes
Glass	Perimeter A	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo3Wa2	Perimeter A	Exterior Wall: UValue Max allowed	.064	0.064 Yes
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: SHGC Max allowed	.250	0.250 Yes
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: UValue Max allowed	.500	0.500 Yes
Skylights	Perimeter A	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof UValue Max allowed	.048	0.048 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof Absorptance (3-year aged) Max allowed	.750	0.450 No
Pr0Zo3Rf1	Perimeter A	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter B	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo5Wa2	Perimeter B	Exterior Wall: UValue Max allowed	.064	0.064 Yes
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: SHGC Max allowed	.250	0.250 Yes
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: UValue Max allowed	.500	0.500 Yes
Skylights	Perimeter B	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof UValue Max allowed	.048	0.048 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof Absorptance (3-year aged) Max allowed	.750	0.450 No
Pr0Zo5Rf1	Perimeter B	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter C	Percent glass Max allowed (%)	26.772	30.000 Yes
Pr0Zo6Wa1	Perimeter C	Exterior Wall: UValue Max allowed	.064	0.064 Yes
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: SHGC Max allowed	.250	0.250 Yes
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: UValue Max allowed	.500	0.500 Yes
Pr0Zo6Wa3	Perimeter C	Exterior Wall: UValue Max allowed	.064	0.064 Yes
Skylights	Perimeter C	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof UValue Max allowed	.048	0.048 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof Absorptance (3-year aged) Max allowed	.750	0.450 No
Pr0Zo6Rf1	Perimeter C	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter D	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo7Wa1	Perimeter D	Exterior Wall: UValue Max allowed	.064	0.064 Yes
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: SHGC Max allowed	.250	0.250 Yes
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: UValue Max allowed	.500	0.500 Yes
Skylights	Perimeter D	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo7Rf1	Perimeter D	Exterior Roof UValue Max allowed	.048	0.048 Yes

Prescriptive Envelope Compliance

Pr0Zo7Rf1	Р	erimeter D	Exterior Roof Absorptance	e (3-year a	ged) Max	.750	0.450	No
Pr0Zo7Rf1	Р	erimeter D	allowed Exterior Roof Emissivity (Required	3-year age	ed) Min	.900	0.750	Yes
DOES N	OT me	et Prescriptive	Envelope Requireme	ents FA	AILS			
Type: Office	Prototyp e	ng e Building A1 JANDO INTL A	RPT.tm3)					
	_		External Light	nting C	omplianc	e		
Description	n	Catego	y Ti	adable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	2	Walk wa	ay less than 10 feet wide	Yes	1.00	150.0	150	84
Project: Des Fitle: TAM Fype: Office	sProjSizi Prototyp e	ng e Building A1 .ANDO_INTL_A			nnlianaa			
Project: Des Fitle: TAM Type: Office (WEA File:	sProjSizi Prototyp e	e Building A1	RPT.tm3) Lighting Pov Area (sq.ft)		npliance No. of Spaces	Design (W)	Effective (W)	Allowand (W)
Project: Des Fitle: TAM Type: Office WEA File: Space	ProjSizi Prototyp FL_ORI Ashrae	e Building A1	Lighting Pov Area (sq.ft)	ver Cor Height	No. of	-		
Project: Des Fitle: TAM Type: Office WEA File: Space Pr0Zo2Sp1	sProjSizii Prototyp S FL_ORI Ashrae ID	e Building A1 <u>ANDO_INTL_A</u> Description	Lighting Pov Area (sq.ft)	ver Cor Height (ft)	No. of Spaces	(W)	(W)	(W)
Project: Des Fitle: TAM Type: Office (WEA File: Space Pr0Zo2Sp1 Pr0Zo3Sp1	SProjSizii Prototyp FL_ORI Ashrae ID	e Building A1 <u>ANDO_INTL_A</u> Description Office - Open P	Lighting Pov Area (sq.ft) lan 14,400 lan 2,025	ver Cor Height (ft) 12.0	No. of Spaces	(W) 12960	(W) 12960	(W) 12,960
Project: Des Fitle: TAM Fype: Office WEA File: Space Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	sProjSizir Prototyp FL_ORI Ashrae ID 16 16	e Building A1 <u>ANDO_INTL_A</u> Description Office - Open P Office - Open P	Lighting Pov Area (sq.ft) lan 14,400 lan 2,025 lan 2,025	ver Cor Height (ft) 12.0 12.0	No. of Spaces 1 1	(W) 12960 1823	(W) 12960 1823	(W) 12,960 1,823
Project: Des Fitle: TAM Type: Office WEA File: Space Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	SProjSizin Prototyp FL_ORI Ashrae ID 16 16 16	e Building A1 <u>ANDO_INTL_A</u> Description Office - Open P Office - Open P Office - Open P	Lighting Pow Area (sq.ft) lan 14,400 lan 2,025 lan 2,025 lan 2,025	ver Cor Height (ft) 12.0 12.0 12.0	No. of Spaces	(W) 12960 1823 1823	(W) 12960 1823 1823	(W) 12,960 1,823 1,823
Type: Office (WEA File:	ProjSizir Prototyp FL_ORI Ashrae ID 16 16 16 16 16 16 2 2 2	e Building A1 <u>ANDO_INTL_A</u> Description Office - Open P Office - Open P Office - Open P Office - Open P	Lighting Pow Area (sq.ft) lan 14,400 lan 2,025 lan 2,025 lan 2,025	ver Cor Height (ft) 12.0 12.0 12.0 12.0	No. of Spaces	(W) 12960 1823 1823 1823	(W) 12960 1823 1823 1823	(W) 12,960 1,823 1,823 1,823 1,823

Project: DesProjSizing Title: TAM Prototype Building A1 Type: Office (WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Lighting Controls Compliance						
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Pr0Zo2Sp1	16	Office - Open Plan	14,400	1	2	FAILS
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
Pr0Zo3Sp1	16	Office - Open Plan	2,025	1	1	PASSES
				FAI	LS	

Project: DesProjSizing Title: TAM Prototype Building A1 Type: Office (WEA File: FL_ORLANDO_INTL_ARPT.tm3)

	System	n Report	Complia	ance				
Pr0Sy7	System 7	Constant Volume Packaged No System902						
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	482649	9.50	9.50	9.60	9.60	PASSES	
Heating System		722230	3.20	3.20			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	13375	0.82	0.82			PASSES	
Pr0Sy8	System 8			tant Volume m902	Packaged	Ν	lo. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	93986	11.00	11.00	11.20	11.20	PASSES	
Heating System		152910	3.30	3.30			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	2832	0.82	0.82			PASSES	
Pr0Sy9	System 9			tant Volume m902	Packaged	N	lo. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	85856	11.00	11.00	11.20	11.20	PASSES	
Heating System		137540	3.30	3.30			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	2547	0.82	0.82			PASSES	

Pr0Sy10 System 10			Constant Volume Packaged System902			No. of Unit		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	89128	11.00	11.00	11.20	11.20	PASSES	
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap	144600	3.30	3.30			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2678	0.82	0.82			PASSES	
Pr0Sy11 Sy	rstem 11		Const	ant Volume	Packaged	Ň	lo. of Units	
Pr0Sy11 Sy Component	rstem 11 Category	Capacity	Syster Design	m902 Eff	Design	N IPLV Criteria	Comp-	
Component	Category Air Conditioners Air Cooled 65000 to 135000 Btu/h	Capacity 77715	Syster	m902		IPLV	Comp- liance	
	Category Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) 65000 to		Syster Design Eff	m902 Eff Criteria	Design IPLV	IPLV Criteria	Comp-	
Component Cooling System	Category Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity Heat Pumps Air Cooled	77715	Syster Design Eff 11.00	m902 Eff Criteria 11.00	Design IPLV	IPLV Criteria	Comp- liance PASSE	

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

Project: DesProjSiz Title: TAM Prototyj Type: Office (WEA File: FL OR		n3)					
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss		Comp ance
Water Heater 1	Electric water heater	> 12 [kW]	0.89		290.00	293.40 PA	ASSES
						PA	SSES
		Piping S	ystem Compli	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins C Temp [Btu-i [F] .SF.	in/hr 7	Ins Thick [in]	Req Ins Thick [in	-
						None	
Project: DesProjSiz Title: TAM Prototy Type: Office (WEA File: FL_OR		n3)					
		Other Requ	iired Complia	nce			
Category	Section	Requirement (writ	e N/A in box if not a	applicabl	e)		Check
Project: DesPro	iSizing						

DOE Based Sizing

PROJECT SUMMARY

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Weather File:	FL_ORLANDO_INTL_ARPT.tm3		
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	89.7
		If different, write in:	

CERTIFICATIONS			
I hereby certify that the plans and	I specifications covered by this calculation are in compliance	e as required by	
the authority of jurisdiction	······································	,	
Prepared By:	Building Official:		
Date:	Date:		
I certify that this building is in com	npliance as required by the authority of jurisdiction		
Owner Agent:	Date:		
If required by law, I hereby certify jurisdiction	r (*) that the system design is in compliance as required by the system design is in compliance as required by the system of	he authority of	
Architect:	Reg No:		
Electrical Designer:	Reg No:		
Lighting Designer:	Reg No:		
Mechanical Designer:	Reg No:		
Plumbing Designer:	Reg No:		
	nen law requires design to be performed by registered desig mbers may be used where all relevant information is contair		

DOE 2.1 E Based Sized Parameters (Beta Feature)

<u>IdSystem</u>	System Name	System Type		
1	Pr0Sy1	System 1		
	<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 990759 1847200 34207	<u>Units</u> BTU/HR Btu/h CFM	
2	Pr0Sy3	System 1		
	<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 155641 291730 5402	<u>Units</u> BTU/HR Btu/h CFM	
3	Pr0Sy4	System 1		
	<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 158878 300660 5568	<u>Units</u> BTU/HR Btu/h CFM	
4	Pr0Sy5	System 1		
	<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 148516 279160 5170	<u>Units</u> BTU/HR Btu/h CFM	
5	Pr0Sy2	System 1		
	<u>Component</u> Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 138439 257890 4776	<u>Units</u> BTU/HR Btu/h CFM	