APPENDIX 13-D

Change Form 400C-07 to become one Form 400C-08 as shown:

FORM 400C-08 AllClimateZones

	None	ocidontial			OC-UO AllClima		
Opaque Elements	Nonresidential Assembly Insulation Min.		Residential Assembly Insulation		Assembly	Semiheated Assembly Insulation	
Opaque Lienients	Maximum	R-Value	Maximum	Min. R-Value	Maximum	Min. R-Value	
Roofs		11 14.45					
Insulation Entirely above Deck	U-0.048	R-20 c.i.	U-0.048	R-20 c.i.	U-0.218	R-3.8 c.i.	
Metal Building	U-0.065	R-19	U-0.065	R-19.0	U-0.167	R-6.0	
Attic and Other	U-0.027	R-38	U-0.034	R-30.0	U0.081	R-13.0	
Walls, Above-Grade							
Mass	U-0.123 ¹	R-7.6 c.i ¹ .	U-0.123	R-7.6 c.i.	U-0.580	NR	
Metal Building	U-0.113	R-13	U-0.113	R-13.0	U-0.184	R-6.0	
Steel-Framied	U-0.124	R-13	<u>U-0.064</u>	R-13+R-7.5c.i.	U-0.124	R-13	
Wood-Framed and Other	U-0.089	R-13	U-0.089	R-13.0	U-0.089	R-13	
Walls, Below-Grade	0 0.000	11.10	0.000	11 10.0	0.000	11.10	
Below-Grade Wall	C1.140	NR	C1.140	NR	C1.140	NR	
Floors	01.140	INIX	01.140	IVIX	01.140	IVIX	
Mass	U-0.107	R-6.3 c.i.	U-0.087	R-8.3 c.i.	U-0.322	NR	
Steel-Joist	U-0.052	R-0.3 C.I.		R-0.3 C.I.	U-0.322	R-13	
Wood-Framed and Other		R-19	U-0.052	R-19 R-30			
	U-0.051	K-19	<u>U-0.033</u>	<u>r-3U</u>	<u>U-0.066</u>	<u>R-13</u>	
Slab-On_Grade Floors	E 0 700	ND	F 0 700	ND	F 0 700	ND	
Unheated	F-0.730	NR	F-0.730	NR	F-0.730	NR	
Heated One was Dears	F-1.020	R-7.5 for 12"	F-0.730	NR	F-0.730	NR	
Opaque Doors			ļ				
Swinging	U-0.70		U-0.70		U-0.70		
Nonswinging	U-1.45		<u>U-0.500</u>		U-1.45		
Fenestration	Assembly	Assembly	Assembly	Assembly Max	c. Assembly	Assembly	
i chestration	Max. U	Max. SHGC	Max. U	SHGC	Max. U	Max. SHGC	
Vertical Glazing, 0%-40% of Wall							
Nonmetal framing (all) ²	U-0.75	SHGC 0.25	U-0.75	SHGC 0.25	U-1.2	SHGC NR	
Metal framing (curtainwall/storefront) ³	U-0.70	SHGC 0.25	U-0.70	SHGC 0.25	U-1.2	SHGC NR	
Metal framing (entrance door) ³	U-1.10	SHGC 0.25	U-1.10	SHGC 0.25	U-1.2	SHGC NR	
Metal framing (all other) ³	U-0.75	SHGC 0.25	U-0.75	SHGC 0.25	U-1.2	SHGC NR	
	3 0.1 0	01100 0:20	0 0.70			<u> </u>	
<u>Skylight</u>	Assembly Max. U	Assembly Max. SHGC	Assembly Max. U	Assembly Max SHGC	Assembly Max. U	Assembly Max. SHGC	
Skylight with Curb, Glass, % of Roof							
0 % - 5.0 %	U-1.36	SHGC 0.19	U _{All} -1.98	SHGC _{All} 0.19	U _{AII} -1.98	SHGC _{All} NR	
Skylight with Curb, Plastic, % of Roof							
0 % - 5.0 %	U-1.36	SHGC 0.19	U _{All} -1.90	SHGC _{All} 0.27	U _{AII} -1.90	SHGC _{All} NR	
Skylight without Curb, All, % of Roof	<u> </u>	000 00	<u>JAII 1100</u>	<u> </u>	<u>SAII 1166</u>	ST. S SAIL THE	
0 % - 5.0 %	U-1.36	SHGC 0.19	U _{AII} -1.36	SHGC _{All} 0.19	U _{AII} -1.36	SHGC _{All} NR	
	1	1	- All Title	All	<u> </u>	- All	
		NONRESIDEN	TIAL ONLY				
HAC Equipment			<u>-</u>				
Air conditioner (0-65KBtuh)	SEE	R 13.0	Gas furnace (0-	225 KBtuh - SP)	80% A	FUE or E _t	
Air conditioner (>65-135KBtuh)				Gas furnace (0-225 KBtuh-split)		80% AFUE or E _t	
Air conditioner (>135-240 KBtuh)			Gas furnace (>225 KBtuh)			80% E _c	
Air conditioner (>240 KBtuh)	10.6EER,11.2IPLV		Heat pump (0			R/ 7.7 HSPF	
				65 – 135 KBtuh)	10.6 EER/ 11.0 I	PLV/ 3.2 COP	
					10.1 EER/ 11.5 I	PLV/ 3.1 COP	
Service Hot Water							
Gas storage ≤75,00 Btu/h, ≥20 gallons	0.62-0.0019V EF						
Gas storage > 75,000 Btu/h	90% E _t						
Gas instantaneous	0.81 EF or 8						
Electric storage 12 kW	EF > 0.99 - 0).0012xV					
Pipe insulation (d < 1.5", d≥1.5")	<u>1", 1.5"</u>						
Lighting		\\// fi 2					
Lighting The following definitions apply: a i =con		W/ft ²					

The following definitions apply: c.i.=continuous insulation; NR = No requirement.

1 Exception to Section B2.2.1.1 of Appendix 13-B applies.

2 Nonmetal framing includes framing materials other than metal with or without metal reinforcing or cladding.

3 Metal framing includes metal framing with or without thermal break. The "all other" subcategory includes operable windows, fixed windows and non-entrance doors.

Form 600A-087, All climate zones

Modify Forms 600A North 123, Central 456 and South 789, page 4, Baseline totals box to read as follows. Note that brackets should surround the entire first part of the equation so that the sum of Base Cooling Points, Base Heating Points and Base Hot Water Points is multiplied by 0.85 to get Total Base Points as shown:

```
BASE COOLING BASE BASE HOT TOTAL BASE POINTS + HEATING + WATER POINTS \times 0.85 = POINTS (From P. 2) (Enter on P. 1)
```

Form 1100A-0<u>8</u>7, All climate zones

Modify the Baseline totals for Method A code compliance in the EnergyGauge USA Fla/Res computer program by a factor of 0.85 to make the code 15 percent more stringent than the 2007 code Baseline features.

Form 1100B-07 [Change Page 2 as follows:]

Table 11B-1 Minimum Requirements (See Note 1)

Climate Zones 1,2,3 4,5,6 7,8,9

Building Component	Performance Criteria	Installed Values:	
Windows (see Note 2):	U-Factor = 0.75 SHGC = 0.40- % of CFA <= 16%	U-Factor = SHGC = % of CFA =	
Exterior door type	Wood or insulated	Type:	
Walls – Ext. and Adj. (see Note 3): Frame Mass	All zones: R-13 North: Int. R-6; Ext: R-4 Central: Int: R-6 ; Ext: R-4 South: Int. R-4 ; Ext: R-3	R-Value = R-Value = R-Value = R-Value =	
Ceilings (see Notes 3 & 4):	R=30	R-Value =	
Floors: Slab-on-Grade Over unconditioned spaces (see Note 3)	No requirement R-13	R-Value =	
Hot water systems (storage type: Electric (see Note 5):	40 gal: EF = 0.92 50 gal: EF = 0.90	Gallons = EF =	
Natural gas fired (see Note 6):	40 gal: EF = 0.59 50 gal: EF = 0.58	Gallons = EF =	
Air conditioning systems (see Note 7)	SEER = 13.0	SEER =	
Heat pump systems (see Note 8)	SEER = 13.0 HSPF = 7.7	SEER = HSPF =	

Natural gas furnaces	AFUE = 78%	AFUE =
Oil furnaces	AFUE = 78%	AFUE =
Ductwork:	Unconditioned: R-6 Conditioned: R-4.2	Location: R-Value =
Air Handler location:	Garage, Attic or Interior	Location:

Table 11B-1 Notes:

- (1) Each component present in the As-Built home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method; otherwise Method A compliance must be used.
- (2) Windows and doors qualifying as glazed fenestration areas must comply with both the maximum U-Factor and the maximum SHGC (solar Heat Gain Coefficient) criteria and have a maximum total window area equal to or less than 16% of the conditioned floor area (CFA), otherwise Method A must be used for compliance.
- (3) R-Values are for insulation material only as applied in accordance manufacturers' installation instructions. For mass walls, the interior (Int) requirement must be met unless at least 50% of the insulation value is on the exterior (Ext) or integral to the wall.
- (4) Attic knee walls shall be insulated to same level as ceilings and shall have a positive means of maintaining insulation in place. Such means may include rigid insulation board or air barrier sheet materials adequately fastened to the attic sides of knee wall framing materials.
- (5) For other electric storage volumes, minimum EF = 0.97 (0.00132 * volume)
- (6) For other natural gas storage volumes, minimum EF = 0.67 (0.0019 * volume)
- (7) For all conventional units with capacities greater than 30,000 Btu/hr. For Small-Duct, High-Velocity units, Space Constrained units, and units with capacities less than 30,000 Btu/hr see Table 13-607.ABC.3.2A of the Florida Building Code, Building, or Table N1107.ABC.3.2A of the Florida Building Code, Residential.
- (8) For all conventional units with capacities greater than 30,000 Btu/hr. For Small-Duct, High-Velocity units, Space Constrained units, and units with capacities less than 30,000 Btu/hr see Table 13-607.ABC.3.2B of the Florida Building Code, Building, or Table N1107.ABC.3.2B of the Florida Building Code, Residential.

Table 11B-2 [Change Swimming Pools and Spas to read as follows:]

and Spas.

Swimming Pools N1112.ABC.2.3.4 Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.

FORM 1100C-07 [No change to form]

SUBAPPENDIX G-E

FLORIDA STANDARD NO. 1 (FL-1) FLORIDA REGULATORY MODIFICATIONS TO AIR-CONDITIONING & **REFRIGERATION INSTITUTE (ARI) STANDARD 470-80** Effective April 1, 1986

[No change]