



EN1: Energy Cost Budget Worksheet

Must be typewritten.

Do Not Submit Separately.
Must be incorporated in the drawing set.

1 Location Information *Required for all applications.*

House No(s)	435	Street Name	West 31st Street		
Borough	Manhattan	Block	729	Lot	50
		BIN	1089664	CB No.	104
Work on Floor(s)	Apt/Condo No(s)				

2 Applicant Information *Required for all applications.*

Last Name	Tuluca	First Name	Adrian	Middle Initial	N
Business Name	Vidaris Inc	Business Telephone	(212) 689-5389		
Business Address	360 Park Avenue South			Business Fax	(212) 689-6449
City	New York	State	NY	Zip	10010
E-Mail	atuluca@vidaris.com			Mobile Telephone	(203) 921-6892
				License Number	019062-1



Energy Model Inputs		
NYS approved energy model software:		
Envelope	Proposed Design Input	Budget (Standard Design) Input
Above-grade wall U-factor	0.174	0.064
Below-grade wall U-factor	C-0.119	C-1.19
Roof construction U-factor	0.045	U-0.048
Exterior floor U-factor	NA	NA
Slab-on-grade construction (yes/no)	yes	yes
Window-to-gross wall ratio	53%	40%
Average fenestration assembly U-factor	0.49	0.5
Average fenestration assembly SHGC	0.23	0.4
Fixed shading devices (yes/no)	no	no
Automated movable shading devices (yes/no)	no	no
Lighting		
Average ambient lighting power density (W/SF)	0.641	1.075
Lighting occupant sensor controls (yes/no)	yes	no
Automatic daylighting controls (yes/no)	no	no
Exterior lighting power (tradable surfaces) (kW)	0.712	1.6802
Exterior lighting power (non-tradable surfaces) (kW)	0	0
Heating, Ventilating & Air Conditioning		
Refrigeration equipment type	PTAC's & PVAVS served by drycooler	PTAC's & air cooled PVAVS
Heating equipment type	82% efficient steam boiler	82% efficient hot water boiler
Demand controlled ventilation (yes/no)	no	no
Economizer type (air or water)	limited water-side economizer	none
Domestic hot water heating source	97% efficient gas fired w/ flue gas heat recovery	82% efficient gas fired

Unregulated Energy	Proposed Design Input	Budget (Standard Design) Input
Average Receptacle equipment power density (W/SF)	1.075	1.075
Average Unregulated lighting power density (W/SF)	0	0
Other process loads	na	na

Energy Cost Budget Conformance	Proposed Design Output	Budget (Standard Design) Output
Annual Regulated Energy Cost (\$)	1127204	1255514
Annual Regulated Energy Use (BTU/GSF)	56805	60740
Annual Regulated Energy Cost Per Sq. Ft. (\$/GSF)	1.481	1.650

Energy Model Output Breakdown		
Energy Use Breakdown	Proposed Design Output (% BTU/yr)	Budget (Standard Design) Output (% BTU/yr)
Heating	62.3	61.7
Cooling	3.9	5.1
Heat rejection	0	0
Fans	10.5	9.9
Pumps	0.2	0.4
Lighting	6.4	7.1
Unregulated loads (e.g., plug loads, elevators, escalators, kitchen, process equipment, exterior lighting)	16.7	15.8
Total	100%	100%

Falsification of any statement is a misdemeanor under § 26-124 of the NYC Administrative Building Code and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

Name (please print)	ADRIAN TULLUCA	
Signature		Date
		1/6/2015
		
P.E. / R.A. Seal (apply seal, then sign and date over seal)		