

Revision #:

Engr. Spec. #	Importance	Source	Specification (description)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ES1	9	CN1, CN2	collecting thermal energy usage data	BTU			BTU HW/CW Total
ES2	9	CN1, CN2	collecting electrical energy useage data	kW			208V/480V
ES3	9	CN1, CN2	thermal energy useage per square foot of building	BTU/ft^2			(HW+CW)/ft^2, (kW/ft^2)
ES4	3	CN3	determining the cost of units and labor	\$			Not Needed
ES5	3	CN3, CN4	calculating the installation time of units	h			Not needed
ES6	3	CN3, CN4, CN5, CN6	determining sensor quantity	#			6
ES7	3	CN4, CN5	determining the down time of units	h			BTU HW/CW Total
ES8	3	CN1, CN2	measuring the weather effects on data (temperature)	F			NOAA
ES9	3	CN1, CN2	measuring the weather effects on data (% humidity)	%			NOAA
ES10	3	CN1, CN2	measuring the weather effects on data (wind speed)	MPH			NOAA
ES11	3	CN1, CN2	measuring the weather effects on data (wind driection)	N/S/E/W			NOAA
ES12	3	CN1, CN2	measuring the weather effects on data (solar heat)	BTU			NOAA
ES13	1	CN5, CN7, CN9	determining the speed of interactivity of units (connectivity)	kbps			instantaneous
ES14	3	CN5, CN6, CN8, CN9	determining the interface unit quantity	#			Web page/ 2nd floor TV
ES15	3	CN8, CN9	measuring the approval from faculty/staff/students	survey			User Study
ES16	1	CN8, CN9	calculating the use of units by the people	#			Website hit counter
ES17	1	CN8, CN9	calculating the use of buildings by people (occupancy)	#			Head count data
ES18	9	CN6	detreming an archival length of time for the system	year			Maximum allowed
ES19	3	CN3	determining the cost of maintenance of units/system	\$			Web site updating

Engr. Spec. #: enables cross-referencing (traceability) and allows mapping to lower level specs within separate documents

Source: Customer need #, regulatory standard (eg. EN 60601), and/or "implied" (must exist but doesn't have an associated customer need)

Description: quantitative, measureable, testable details

*This table can be expanded to document test results