Project: Levitation Clock

Rev 1.1

Spec. #	Importance	Source	Function	Specification (metric)	Unit of Measure	Ideal Value	Marginal Value	Comments/Status
S1	2	CN1, CN5	No user interaction required for operation	Start/Stop levitation when power is applied or removed	seconds	1	5	Clock will autonomously operate within 0-5 seconds from power event
S2	1	CN2	Aesthetics	Visibility from at least 8 feet	feet	15	8	
S3	1	CN3	User Feedback	Easy user interface and feedback system for time adjustment	seconds	10	60	Units are how long it takes user to change time
S4	2	CN4	Power	Current Draw	A	1	5	
S5	2	CN5	User Feedback	Power On Indicator	Binary		Pass	
S6	1	CN6	Control and Stabilization	Proper sizing for indoor use. Interference rejection for indoor use.	inches	12	18	Value may change after concept analysis
S7	1	CN8	Time telling	Hour indicator must be larger than minute indicator. Hours must be clearly displayed on clock. Must be accurate within ± 30 minutes	minutes	10	60	Accurate to 60 minutes
S8	2	CN2	Time telling	Viewing angle	degrees	360	30	Minimum ±15 degree viewing angle from straight on

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), constraint
Description: quantitative, measureable, testable details
*This table can be expanded to document test results