

P11216 Wandering Ambassador

Mechanical Test Plans & Test Results

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P11216 Wandering Ambassador Mechanical Engineering Preliminary Test Plan

1. MSD I: WKS 8-10 PRELIMINARY TEST PLAN

1.1. Sub-Systems/ Functions/ Features

Major Sub-Systems/ Features/ Function
1. Water Deterrence
2. Sonar Layout
3. Adjustable Plant Holder
4. Additional Plants

1.2. Test Plans

1.2.1. Water Deterrence

Date Completed:

Performed By:

Tested By:

Engr. Spec. #	Specification (description)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ES1	Range of physical deterrence	Ft	0.5	2	
ES2	Pressure from physical deterrence	kPa	100	200	
ES3	Duration of physical deterrence	S	5	20	

1.2.2. Sonar Layout

Date Completed:

Performed By:

Tested By:

Engr. Spec. #	Specification (description)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ES14	Increased sonar coverage	%	0	100	

1.2.3. Adjustable Plant Holder

Date Completed:

Performed By:

Tested By:

Engr. Spec. #	Specification (description)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ES15	Varying sizes of plants can be carried	Binary	Y	Y	

1.2.4. Additional Plants

Date Completed:

Performed By:

Tested By:

Engr. Spec. #	Specification (description)	Unit of Measure	Marginal Value	Ideal Value	Comments/Status
ES29	Additional plants can be mounted to the Wandering Ambassador	Binary	Y	Y	

1.3. Test Equipment

Engr. Spec. #	Instrumentation Required
ES1	Meter stick or measuring tape
ES2	Pressure sensor
ES3	Stop watch
ES14	None
ES15	None
ES29	None