

Meeting Minutes Week 04/09/17-04/16/17

Meeting: April 09, 2016 3:30-5:30 pm in Capstone lab

Team Meeting Discussion/Activity:

➤ Group continued Testing Procedures and

1. Weight (The total weight of the device should be less than 70lbs)

A bathroom scale has been used to measure the weight of the device. A.J. was weighed on the scale (134.8lbs) before holding all the components and stepping on the scale. A.J.'s weight was subtracted from each to get the true weight.

Swivel, harness, PVC, bearing, tow strap, bungee (0.6lbs)

Easy Up (35.0lbs) Middle bar & wheels (5.6lbs)

Tracks (16lbs)

The device weight was 57.2 lbs, which passed the test of being less than 70lbs.

2. Size Tests (**Workspace size** should be less than 12ft in all directions)

The size testing was done using a measuring tape. The team measured the length, width, and height of the steel rods in the Easy Up since it is the largest component of the device

The results were:

Length: 118" (9.8ft)

Width: 118"

Height: 118"

length width height

Since 9.8ft in each direction is smaller than 12ft in each direction, the device passed this test.

Storage Size (Should be 5ftx5ftx2.5ft)

The team also used a measuring tape to measure the **storing** parameters for the device while it was fully closed. The dimensions of this test were the following:

Railing: 9.5ft total, but when "collapsed" 4ft section

Middle Bar: 110" (9.1ft)

EZ up width: 8.5"

Length: 48"

Height: 8.5"

railing (just one section) middle bar

EZ up width length height

Everything but the middle bar would be able to fit in a closet setting. The team talked to Dr. Winfree and got signed off on an adjustment to the HOQ that specified storage size as 10ftx5ftx2.5ft (See Appendix)

3. Loaded Device (Device should be able to hold at least 40lbs without collapse)

The team inserted dumbbells that weight 40 lbs. The system did not fail, but the team has some concerns about this kind of weight and vigorous movement by the child. The test passed, but the team will talk to Winfree about potential solutions or scaling down the HOQ weight requirements.

Weekly Tasks 04/09/17-04/16/17

Team Member	Tasks Assigned
Khaled	<ul style="list-style-type: none">• Make report edits
Hasan	<ul style="list-style-type: none">• Continue to monitor and budget
Noah	<ul style="list-style-type: none">• Email Dr. Winfree to confirm next meeting time
Eileen	<ul style="list-style-type: none">• Continue to construct gravity harness instruction manual
A.J.	<ul style="list-style-type: none">• Submit meeting minutes by 04/17/2017• Compare current list of materials to EPA lists to find any health hazards

Next Steps:

- ❖ Team meeting Monday at 4:30 pm.