# MEETING MINUTES

## Topic: Material Update

**Wednesday, January 31, 2018**
**3:45pm – 4:35pm**

**Minutes recorded by** _Brandon Cook_

**Meeting called by** __Joshua Smith__

**Attendees:** _Joshua Smith, Brandon Cook, Miriam Deschine, Dan Edmonds_

**Please bring:** _Laptops_

**Executive Summary:**
The purpose of this meeting was for the team to discuss where each member of the team has gotten with finding suppliers of their assigned materials. The team discussed potential options and prices to get feedback from each other. The team then began planning for testing procedures, manufacturing, and the CDR presentation with Orbital ATK.

**Table 1. Record of meeting.**

| | | |
|---|---|---|
| **3:45pm to 4:00pm** | **Meeting Overview**<br>• The team went around discussing what materials had been priced<br>• Dan found a local supplier for the Hammilton v-grooved wheels.<br>• Josh said to check Home Depot for the V-track<br>• Brandon got a quote on ¼" steel, pipe, and rod for about $150. These materials are in stock. Need to acquire tabs. Need half stick of pipe, not full length<br>• Discussed the change that needs to be made to base plate because of thickness. Need additional ¾" square tubing. Brandon has some.<br>• Miriam has been looking into the HDPE Fabric. She is looking at different ways of sewing the material as well as what the complicated top section area will look like.<br>• Josh found the carbon fiber, he just needs to find out how we can cut the carbon fiber poles to length. | Rm 120 |
| **4:00pm to 4:30pm** | **Planning**<br>• We need to conduct the test on the fabric to determine if it is the fabric we want to stick with or not.<br>• Discussed how the FEA was going in CAD. Need to figure out how to attach fabric correctly in solidworks for proper analysis.<br>• Discussed how a pop up soccer goal is similar to what the top section of the design will look like.<br>• The team discussed asking Steven about what he is expecting in the CDR presentation so that we can begin preparing our presentation. | Rm 120 |

| | | |
|---|---|---|
| | • Discussed how guy wire will be attached to top arch. Possible reliefs in where fabric wraps around, but that allows moisture in.<br>• Brandon said he can purchase the steel and begin doing any cutting and welding, minus hole drilling.<br>• Tent poles need to be a priority because the dowels that need to be made for the side hinges are based on the diameter of rod. | |
| **4:20pm to end** | **Plan for next meeting**<br>• The next meeting will be held Wednesday, February 7th to plan CDR and check in on material gathering. | Rm120 |

**Table 2. Tasks Assigned.**

| **Task** | **Person Assigned** | **Due Date** | **Date Complete** |
|---|---|---|---|
| Meeting Minutes | Brandon Cook | ASAP | |
| Update Website | Dan Edmonds | ASAP | |
| Tent Poles | Joshua Smith | 2/1/18 | |
| Email Steven about CDR | Joshua Smith | 1/31/18 | |
| Finalize wheel size and track | Dan Edmonds | 2/2/18 | |
| Get tabs and other steel | Brandon Cook | 2/2/18 | |
| Work on FEA Solution | Brandon Cook | ASAP | |
| Look for fabric and do water test | Miriam Deschine | 2/5/18 | |

## Next formal meeting: 2/6/2017, Engineering, at 5:30pm.