MEETING MINUTES 19

Topic: Meeting 19 – Team Leads Meeting

Thursday, March 15, 2018

02:30pm - 03:30pm

Chair: Leo Segura De Niz

Attendees: David Willy, Alana B, Alex D, Anthony C, Devon H, Tristan S

Location: Room 323 @ EGR Building

 Table 1. Tentative Schedule

Introduction

- 1. Announcements
 - a. Institutional excuse forms will go out at the end of this week
 - i. Thanks for filling out the list on the Google Drive.
 - ii. STUDENTS: have an initial talk with instructor. Send email.
 - b. Let's get team polo shirts and t-shirts it would be cool if they all had them at the 3/28 fundraiser!
 - i. Any tshirt company. Breast patch size. Polo and tshirt for each student traveling, Willy, Business Team, Karin.
 - ii. Business formal for presentation.
 - c. Funding update.
 - i. Travel Funding obtained for Willy's travel.
 - ii. Ask Oman for tshirt purchases.
 - d. DOE Call Update
 - i. Thanks to those who attended.
 - ii. If you did not attend, make an effort to read the emailed slides from the call.
 - e. First draft of the DOE report March 18th (This Sunday!)
 - i. I AM LOOKING FOR ALL SECTIONS TO BE COMPLETE.
 - ii. Final draft for Willy and Karin to provide feedback due April 9th.

Discussion Topics

Test Team A - Blades, Shaft, DC-DC Converter, Wind Tunnel Testing, Generator

Test Team B - Hub, Rectifier, Nacelle, Brakes, Yawing, Load, Tower, Energy Storage

Market Team - Turbine Design, Siting Challenge within 100mi, Siting Challenge at the competition, Car Charging Station, Support test teams

1. Market Team Update

a. V2G

- i. Have a base understanding of the sample.
- ii. More work needed.
- iii. Apply it to an actual site with an actual turbine. Get a simulation going for the business plan.
- iv. Replace the vehicle with a Tesla and turbine with designed turbine in the model.
- b. Siting
 - i. Working on the tutorials.
 - ii. Meet with Willy weekly. Alana or Anthony to set up some time.
 - 1. Friday 10-1pm, noon?
 - 2. Wednesday 9-11am
- c. Business Plan

- d. Plans for printed materials, 3-d printed scale system model, and other promotional items at competition?
 - i. Manuals
 - ii. brochure
 - iii. 3D printed model
 - iv. Turbine Spec Sheet for Market Turbine
- 2. Test Team Update
 - a. Yousef to talk about testing code.
 - i. BENCH TEST WEEK AFTER SPRING BREAK
 - b. PITCHING Approved
 - c. BRAKES Approved
 - d. PCB BOARD Iterating
 - e. LATE ORDERS (generator)
 - i. Generator in Netherlands to ship
 - ii. AMMO 28-56-1530KV generator
 - iii. Tomorrow or Saturday update on the generator from Alex. Order a new one?
 - f. What was manufactured this week?
 - g. What was approved?
 - h. What has been ordered? What parts/material are we lagging?
 - i. Mechanical parts being picked up this weekend.
 - ii. 2nd orders in mind.
 - i. What can we manufacture/ work on next week? Machine shop is open over Spring Break!
 - i. Whatever we have material for next week.

ME:

Baseplate - done Bearing Spacer - done Tower Sleeve - done Lower Nacelle - 3/15 Nacelle Spacer - waiting. not a concern Top Nacelle - material picked up this weekend Tower Weld - 3/27? Tower Sleeve Weld - week of 3/19 Hub - approved today. material on monday Yaw-approved today. material on monday Brakes - approved today. material on monday Shaft - iterating. We have material for it. Shaft Bearing - in hand. Blades - one more test print next week. ready to go Generator Mount - picking up material on monday Yaw Mount - picking up material on monday

EE:

PCB Schematic (3/6/18) PCB Layout (3/8/18) - iterating. will be approved today?? Component Purchasing (3/6) Braking Code (3/25) Pitching Code (3/25) Dump Load Code (3/25) Boost Converter Code (3/25) H-Bridge Code (3/25) Soldering PCB (3/25?) Testing Procedures - Aaron updating the drafts and showing them to Willy.

Dakota - Wind Tunnel Testing

MANUFACTURING:

Schedule to be sent out by Devon Hardy before next week.

Plan for next meeting

1. Review deliverables/ tasks/ to-do's to be completed by the next meeting.

Action Items:

- 1. MFG Schedule to be sent out by Devon Hardy before next week.
- 2. Dakota Will let the team know when meeting with David Willy at the Wind tunnel.
- 3. Aaron Updating the testing procedures and showing them to Willy.
- 4. Alex Will be ordering a new generator ASAP (3/16?).
- 5. Yousef Come to leads meeting 3/29 to do a bench test.
- 6. Leo Ask Professor Oman about using CWC fund to purchase T-shirts (3/30).
- 7. Leo Will look at T-shirt manufacturers to identify cost (3/30).
- 8. Market Team Create Manual, brochure, spec sheet, 3D model for Market Turbine.