

Meeting Minutes

Date: 11/17/14

Present:

- ME students:
 - Steven Blanchette, David Deli, Jeremiah McCalister, Abigail McCool
- CE students:
 - Kimberly Martinson, Theodore Meros
- Faculty/Advisors:
 - Dr. Jung, Dr. Taria

Notes:

- Review Midterm 2 presentation
 - Dr. Jung comments:
 - Weight seem high
 - NREL 5MW gives you exact weight
 - Final design layout
 - Define weight
 - Overdesigned in terms of compression
 - Rotor and nacelle weight can come from NREL specs
 - Center of pressure = 25% chord length
 - Fix “Fabrics” at the top of the table on slide 10
- Additional comments from Dr. Jung:
 - Before the end of the semester:
 - Cost comparison between proposed and current turbines
 - Energy/revenue comparison between proposed and current turbines
 - Fatigue not yield (do this in Pro-E)
 - Almost all machines fail in fatigue
 - Add dynamic vibration calculation to the tower
- Additional notes:
 - Idea for getting turbine prototype to generate electricity use and alternator
 - Theo has contact to creating mold for blades
 - FAST does output power generation