

MEETING MINUTES

Topic: Meeting with Steven, Review of CN/ER's, Black Box, Functional Model

Thursday, September 21, 2017

4:00 pm – 6:30 pm

Minutes recorded by Brandon Cook

Meeting called by Joshua Smith

Attendees: Joshua Smith, Brandon Cook, Miriam Deschine, Dan Edmonds, Steven Hengl, Jerry Feldmiller

Please bring: Laptops, research, customer needs, engineering requirements

Executive Summary:

The main purpose of this team meeting was to conduct a conference call with the client from Orbital, Steven Hengl. During the conference call the team was introduced to Jerry Feldmiller. He is another employee at Orbital who will be helping the team throughout the design process. The conference call consisted of talking with Steven about the list of customer needs and engineering requirements the team established prior to the meeting. Any questions the team had were answered before the call was concluded. After the conference call, the team began to work on a black box model and a hypothesized functional model. The final part of the meeting consisted of the team dividing the roles of writing the first three chapters of the Preliminary report. These chapters include the introduction, background research, requirements, existing designs, and the functional decomposition. The team gantt chart for the entire semester as well as a more detailed gantt chart for items leading to the preliminary report can be found in Appendix A.

Table 1. Record of meeting.

4:00 pm to 4:30 pm	Conference call with Steven Hengl, Jerry Feldmiller <ul style="list-style-type: none">• Met Jerry, another employee of Orbital who will be helping with the project• We discussed customer/engineering requirements which were not rated by Steven. He told us why they were not as important• Survive 50 miles per hour, above 35 is non-working conditions for workers• He hit on the main customer needs of importance and why they are important• Accessibility should be 360 top to bottom access• Disassembly less than 4 hours• 30,000 dollar for a full scale design, but stick to the 5,000 for the small scale design for this prototype• Safety is of most importance for personnel as well as vehicle• No potential for smashes, crushing, or pinching• Think about lightning! Possibly need to ground the device• Some pads have lightning rods in place	Dub Rm A
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	<ul style="list-style-type: none"> Assume the launch vehicle is sitting on an empty concrete pad Primary goal is wind and solar protection Assume for all rockets the temperature range is between 65-85 degrees Josh requested Jerry's contact information Steven prefers a weekly email with all meeting minutes combined Josh asked for dates of the PDR and CDR PDR- November 6 CDR- Some date before the actual building process begins, look into when this will be 	
4:30 pm to 6:15 pm	<p>Black Box and Functional Model Discussion</p> <ul style="list-style-type: none"> Josh began to draw a black box model with input from the team Brandon looked up information on creating a proper black box model Josh and Dan brought up OSHA standards Josh drew the functional model on the whiteboard while the team provided input Brandon began creating the black box model in a word document Miriam pointed out that the setup of the enclosure should be added to the functional model since it is part of our design problem 	Dub Rm A
6:15 pm to end	<p>Plan for next meeting</p> <ul style="list-style-type: none"> The next meeting will be held at the Dubois at 6:00pm In the next meeting we will be compiling the report sections we have done individually and working on the HoQ 	Dub Rm A

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
Chapter 1 of Report	Josh Smith	9/24/17	
Meeting Minutes	Brandon Cook	9/22/17	
Chapter 3.4 of Report	Josh Smith	9/24/17	
Chapter 2.1-2.2 of Report	Miriam Deschine	9/24/17	
Chapter 3.1 of Report	Brandon Cook	9/24/17	

Chapter 3.3.1-3.3.2 of Report	Brandon Cook	9/24/17	
Chapter 3.2-3.3 of Report	Dan Edmonds	9/24/17	

Next formal meeting: 9/24/17, Dubois Building, at 6:00pm.

Appendix A: Gantt Charts

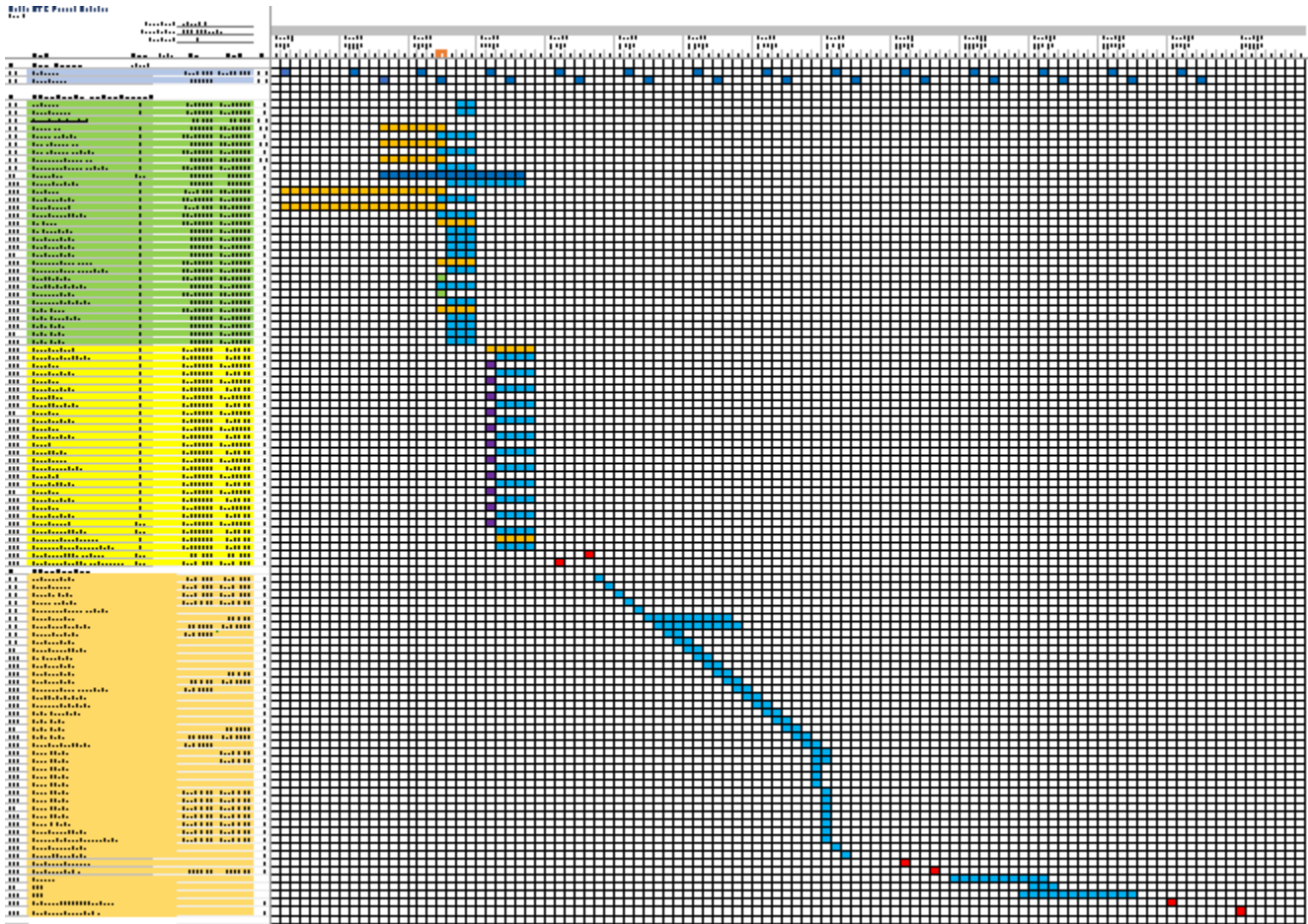


Figure 1: Team Gantt Chart for Entire Semester

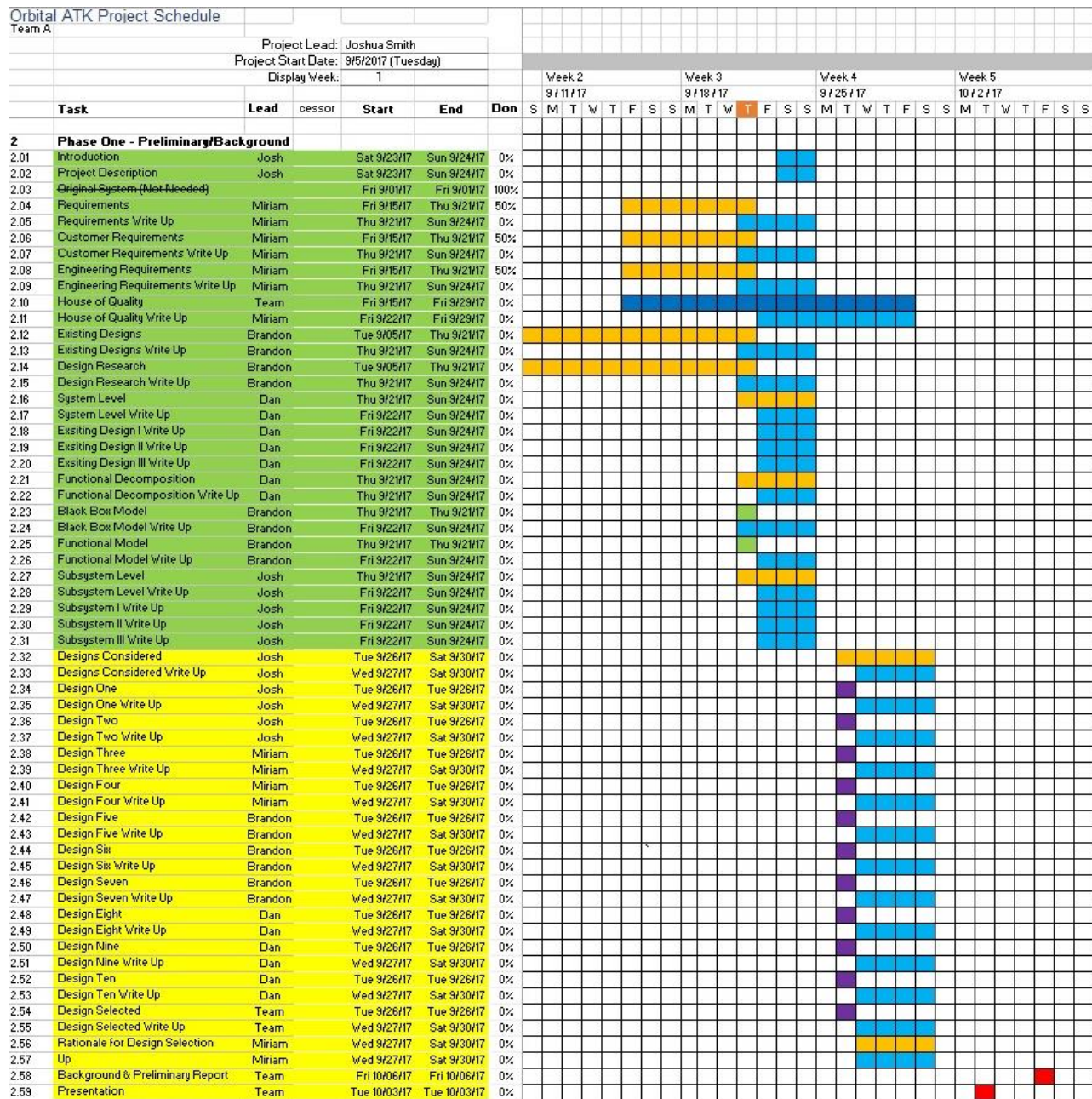


Figure 2: Team Gantt Chart Up To Preliminary Presentation