|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Meeting Date | 4/22/2014 |  | |  |
| Meeting Place | SSRL | Leader | Tom Moline | |
| Minutes Date | 4/23/2014 | Participants | Nicholas Mercadante, Tyler Olson, Nate Richard, Denana Vehab, Joseph Mayer, Nathan Bossart, Maxwell Polley, Alex Howard | |

| Description | Action | Due Date |
| --- | --- | --- |
| **ICD:**  Just need to push out an ICD that we think will work, and see what happens.  Can’t just keep waiting.  Identify all the ways everything needs to interface with each other, then go forward.  **AI: Have something to show Boeing by Thursday**  **Structures:**  Conducted mass budget for secondary spacecraft  Creating document on three docking mechanisms that we are going to pitch to Boeing  Have a solenoid in, can begin testing.  Need to refine the structural analysis so that it can account for other accelerations and weights associated with the spacecraft.  May look into a secondary battery system just for the separation mechanism (look into solid state, as opposed to mechanical, methods)  **Communication:**  Figuring out how to communicate to RF receiver  Probably going to make a custom board  Picked out components, need to order them  Current plan may change due to Swartwout, will discuss more (indirect method, as opposed to direct)  If something were to go wrong during the seven day mission, there is not much that can be done for the secondary  Adds a lot of complexity that may introduce new failure modes  **AI: Trade study to be conducted between indirect and direct methods (verification)**  **Power**  Not a lot of work the past week.  May need to rethink the cell sizing, may look into C and D cells (need to figure out voltage matching)  **AI: Have trade study for Thursday**  **Propulsion:**  Have two preliminary CAD’s for the system.  Should have a document ready for Boeing this Thursday.  Need Boeing to provide data on control authority to account for non-centered propulsion system  **AI: Will deliver document by the end of the day**  **ADC:**  Haven’t been able to find any nutation damping methods, will be looking into it.  Still need to develop algorithms | Tom Moline  Maxwell Polley  Alex Howard  Tyler Olson | 4/24/2014  4/24/2014  4/24/2014  04/24/2014 |