

Power Subsystem

Weekly Meeting

Meeting Date	3/31/2014		
Meeting Place	SSRL	Leader	Tyler Olson
Minutes Date	3/31/2014	Participants	Tyler Olson, Nicholas Mercadante, Javier Muro de Nadal, Nate Richard, Max Polley, Tom Moline

Description	Action	Due Date
<p>Questions for Boeing:</p> <p>What is the exact structural layout of the Colony-II Bus?</p> <ul style="list-style-type: none"> This is important to know, in terms of the manner in which the design will be approached. <p>What are the mass specs of the Colony-II bus?</p> <p>Deployable solar panels (how would we interfere with them)?</p> <p>Propulsion Specifications:</p> <p>Should limit the size to 0.5U.</p> <p>Should be able to produce 50 m/s of delta-V.</p> <p>Mass percentage limited to 50-75%.</p> <p>Power usage limited to <3W.</p> <p>Should ask Swartwout for the propulsion system that Boeing was originally planning to incorporate.</p> <p>Propulsion Basics:</p> <p>Fuel will be R-134a (Unless other methods are found to better meet requirements).</p> <p>Only need to have 3 Degree of Freedom (DOF) control.</p> <ul style="list-style-type: none"> This means that we only need control over forward-backward, left-right, up-down motion. <p>Would review the work that Manu did last semester, but PRO-E is not behaving.</p> <p>Wend over the supplemental information at least.</p> <p>Coordinate System:</p> <p>Have to work in camera coordinate system and body coordinate system.</p>	<p>Send Tom a list of questions for Boeing (TO)</p> <p>Contact Manu about getting access to working files (TO).</p> <p>Send out supplemental information to the rest of the team (TO)</p>	<p>4/01/2014</p> <p>4/01/2014</p> <p>4/01/2014</p>



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<ul style="list-style-type: none">• Body coordinate system would be based on CubeSat Design specifications.• Camera's Z axis is specified as going away/towards the camera lens.• We have decided to go with a coordinate system that is based on a body-fixed system, as defined by the CubeSat Design Specification Document.		