Rascal Berthing Subsystem Meeting

Meeting Date	3/30/2014		
Meeting Place	SSRL	Leader	Tom Moline
Minutes Date	3/30/2014	Participants	Andrew Zimmerman, Denana Vehab, Tom Moline, Nate Richard, Marek Janiczek, Alex Howard, Tyler Olson

Description	Action	Due Date
RVM Overview: Requirements have been imposed on the design of the conjoinment mechanism that limits the initial separation and rotational velocity between each spacecraft. These requirements are that the mechanism must survive initial spacecraft separation, achieve a separation velocity of less than 1 m/s, and a rotational velocity of 10 deg/s. Also necessitates a power inhibit that prevents the secondary spacecraft from being powered on until separation. **Future Work:** Need to allocate volume an power constraints. Set up a weekly meeting time: • DV: MW after 3 PM, TR before 4 PM • AZ: M after 5 PM, Every Other Day after 1 PM • MJ: Every day but Tuesday after 3 PM, T after 5 PM • TM: Figure out which spacecraft the docking mechanism will be incorporated into. • NR: Do we want to sacrifice power on secondary spacecraft for ease of integration? • TM: Also need to look at this from a volume budget standpoint. What are some initial ideas for separating mechanism? • DV: could use primary propulsion system for main separation force. o Might have to change the power off requirement if we want to have the	**Schedule weekly meeting time (JB)** **Provide at least three different design ideas for separation mechanism (DV)**	**04/01/2014** **04/01/2014**

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separation mechanism on the secondary spacecraft. • DV: could also use a nylon tie-down and have a different version of the burn circuit. • MJ: could have physical way of conjoinment and use electromagnets for separation force.		