

Meeting with Scott Miller and Geno Pinczewski, General Atomics

8:30AM MST (9:30AM CST) Thursday, Feb. 11, 2021

To address:

We have discussed funding with Dr. Oman

We are planning to see (and take?) the previous team's work in the coming week

We are moving into concept generation

Any specific features desirable?

Discussed using inductive motors to adjust CG position – could they damage sensitive instruments even if powered down during testing?

Meeting:

Scott Miller on call

Re: Motors

Shouldn't interfere with instruments

Check impact on magnetic fields due to housing etc.

Prev team

Pneumatics were a "novel" approach to moving weights

Worried that CG may not be adjustable low enough

Be aware of keep-out zones

"Whatever mech. you are using to drive CG, make sure they don't get in front of umbilicals"

These are the access panels shown in 3U/6U/12U Payload Specs from CSD

Safety also big concern

Don't want ~\$1M sat falling on floor

CSD mentions method of clamping to tabs

Other team went different direction, Scott doesn't care if we use their system, CSD clamping system, or other, as long as it is secure

DIY air bearing?

“If that’s how you want to spend your funding”

GA will be testing our design with dummy satellite prior to use to ensure safety, function

“As you assess the previous team’s design, present to GA team” in the next few weeks

“As you get through that part of your coursework”

GA would like to hear an “Independent verification” of the design

Not “throwing anyone under the bus” but “Here’s what they did with time and constraints, here’s where we think we can improve”

Advantage of continuing their work, “You can build upon what they’ve done”

Actions:

Scott: Sending sat CG, mass info to us; looking for problem statement, solution info given to last team

Us: Prepare presentation on prev. team next 1-2 weeks