

HRPPD Meeting #14 Update

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U.S. DEPARTMENT
of ENERGY



Current Status

Ceramic Tasks:

- Tasks:
 - **Kyocera 10-layer quote follow-up**
 - Open items:
 - Decide: HRPPD perimeter 119.634 vs 119.63
 - Will update files once decided
 - Alignment marks
 - Spacer visual test
 - #2-56 or #4-40 or M2 hardware
 - Is this flexible per customer?
 - Spacer is 2.726mm thick
 - 2-56 stainless steel, non-magnetic, 2.18mm
 - 2-56 nitronic steel, non-magnetic, 2.18mm, 4x cost
 - 4-40 titanium, non-magnetic, 2.84mm
 - 4-40 stainless steel, non-magnetic, 2.84mm
 - 4-40 require thicker spacer unless shorter helicoil can be found
 - 1mm vs 3mm spacer
 - Benefit: 2mm spacer + 1.6mm PCB vs 3mm spacer + 1.6mm PCB
 - Complicates assembly procedure
 - Plug-in card clearance when installed
 - What is vertical clearance above backplane?
 - Card digital output connectors and cables
 - Card orientation and cooling
 - Review action item list

Non-Ceramic Tasks:

- FCFD Test Board
 - Received FCFD boards Wed 3/11
 - Voltage regulator stuffed with wrong part
 - Parts ordered, waiting to ship

No update

- **Spacer thickness**
 - TBD Will send ceramic and PCB 3D models to Alex once complete for spacer mockup
- **Backplane Changes**
 - See action item list