

## Meeting Transcript - Project Raptor

Meeting Subject: Engineering Review - Phase I Components

Date: 2025-05-21

Department: Product Engineering

Meeting Host: Elena Vasquez

Attendees: Laura Nguyen, Mitchell Tanaka, Marcus Tremblay, Amina Yusuf

Platform: Teams

Time: 10:00 AM - 11:30 AM

### Transcript

Elena Vasquez: Thanks, everyone. Let's start with the battery enclosure. Mitchell, where do we stand with aluminum?

Mitchell Tanaka: We've got deformation under load in the corner welds. I recommend we re-run the CAE using magnesium alloy.

Amina Yusuf: That would diverge from our current spec. We'd have to flag ENG-RPT-011 for revision.

Marcus Tremblay: What about shielding implications? Magnesium isn't as clean electromagnetically as 5052 aluminum.

Mitchell Tanaka: Good point. We'll add EMI suppression layers to the simulation model.

Laura Nguyen: Before we go further-does switching material trigger cost review in BAF-RPT-006?

Amina Yusuf: Yes. I'll notify Finance if we move forward after testing.

Elena Vasquez: Let's also check compatibility with the current mounting interface before changing.

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Mitchell Tanaka: Will do. Target date for CAE results is the 28th.

Amina Yusuf: On another note, I emailed Jason about freezing the ADAS platform until we cross 90% validation. That ties directly into VAL-RPT-SW-009.

Laura Nguyen: Yeah, we're stuck at 88%. Unit tests on the lane keeping module are inconsistent.

Elena Vasquez: That needs resolution this week. No hardware freeze until it's stable.

Marcus Tremblay: On the seating design, cargo volume drops too much when we go past 37 inches of rear legroom.

Laura Nguyen: Let's try preserving the legroom but changing the seat anchor geometry. I'll mock it up.

Elena Vasquez: Good. Add that to the change log and notify the integration team.