MEETING NOTES - 901807 - MARCH 6TH, 2018

Attendees: Kelly Benoit-Bird, Chad Waluk, Hans Thomas, Paul McGill, Eric Martin, François Cazenave (phone)

Updates

1. Overall Project Schedule
    - Long leads ordered in April will allow for production in July.
    - At-Sea: 10/26, 10/29, 12/6

Internal Concept Review

1. Fix diagram. 200kHz always split 333 always single.
2. PCB Features:
    - Board will have to be bootstrapped via external power to enable batteries.
    - Power circuit from 41-cell board
    - Micro for battery control
    - Fusing for outputs
    - Humidity/Temp sensor
    - Some reporting back to the MVC [TBD: Can it cause an abort?]
    - Add filters, at present Paul's board had low pass and some common mode filtering
3. Mechanical:
    1. Forward Transducers:
        - Chin Turret is the leading design, Francois needs to present this modification at some point to Bruce & Kim for approval.
        - Chad would like a close look at the mounting configuration.
    2. Downward Transducers:
        - Current design approved with acceptance that CTD will have to come out.
4. Sphere concept: consensus reached and outstanding issues will be:
    - EMI concerns from SBC and Battery Micro, let's look at the enclosure provided.
5. Budget Review: tight but we have enough at this stage to move forward with

further parts scoping:
    - Some of the connector estimates may be off.
6. Power Budget: looks good for one sphere, Hans is confident for longer duration runs a another battery section can be attached and will not exceed the mapper length.
7. SBC Requirements:
    - Let's consider an evaluation model now that IO is defined.
8. Testing Plan: We need one, but two good ideas suggested:
    1. Obtain long extensions so that we can run the transducers in the tank without the electronics enclosure.
    2. The CTD pump is audibly loud, we can use the above cables and put transducers in the tank with the i2map section as a preliminary test.
9. Schedule:
    - Need to order long leads by mid April for mid July delivery, those are:
        - 17" Sphere with 7 3/4" holes
        - Wet connectors, esp metal shells.

Action Items

1. Hans: work on a quote for nautilus spheres.
2. Eric: identify the pc, order an evaluation battery and charger, and draft wiring for cable ordering advancement.
3. Francois: follow up on issues with Chad, Bruce and Kim, clean up slides and generate FOV overlap graphic for "chin turret" mounting.
4. Kelly: contact Simrad for updates on license and transducer delivery dates.