

Feb 26.

Wednesday, February 26, 2014
2:04 PM

Chris H, Kabir, Chris C, Mark McCrea, Nadia,
Josh, Jack, me, Vince, Irakli, Carlos.

* Schedule - Seppo.

Decision chart - me?

Full assembly & commissioning plan - David

ES&H - tritium not an issue, Nadia - radiation levels

Component progress - where we were

- understanding of what needs done.
- high-level impressions

* Integration

- finalizing coil frame & support stands.
- Jack wants latest STEP files of components
RFSF (Chris), WC (Mark), Coils & frame (Josh)
- NPD^R stands left in place.
- hardware for alignment & commissioning.
 - + rails for mounting chambers.
 - + I'd like to review kinematic mounts.

* B-field

- progress in optimization - almost done.
- eliminated oscillations
- construction behind schedule - unexpected failure.
 - + found CONACYT center machine shop
 - + also water-cutting machines
 - + have a manufacturing plan.
 - + expect first coil start next week, 12 Mar done.
- will validate 1st coil, then build rest.
- constructing a table for winding

- test for heat & map single coil.
- design compatible w/ NPDR supply.
- need to talk about gradient windings.

* Spin Flipper

- set up audio amp $L = 2.11 \text{ mH}$, 4.5% too large.
- outer/inner cylinders: $L = 1.47 \text{ mH}$ (outer) $< 0.1 \text{ mH}$ (inner)
- used lockin to sample field $\sim 0.1\%$
 - measure perpendicular component
- use xy table to do field map?
- ordered neoprene sheets: Mar 3
 - 0.5 mm tears $\rightarrow 1.5 \text{ mm}$ & 0.7 + 0.3 layered
 - we need to order correct capacitor: 15 nF
 - Digkey out of stock we have 3.6 nF (57 kHz)
- Al shell on hold - next week.
- Twinax connector in hand.
- still working on alignment details.

* Wire Chamber

- Advanced assembly - next few days: quote then immediately put out for manufacture.
1-35 standard boards in 3-5 days.
- best case scenario: Mar 7
- waiting on vacuum test from epoxied chamber.
- will assemble stack while waiting.
- mounting chambers: interface with Josh.

* Preamps

- need to remanufacture boards: Lesker 25-pin plugs wrong alignment + $\frac{1}{2}$ rotation
 - ring ground not connected to signal ground.
 - VHDCI on both ends?

- no side-exit receptacles! back?
- enclosures @ UT shop.
 - coming early next week. - Nadia?
 - holding off until testing.

* DAQ

- took false asymmetry measurements.
- questions about breaking up 320 GB files.

* Geometry factors

- Chris using TRIM to get deposition energies
- Mark using pstar
- will use $1/r$, isotropic emission.
- first-order calculation