Engineering support jobs

**keV region:**

[DC] Reconnect two steering magnet sets and solenoid on the NEG tube near the gun after the bakeout

[IC] Restore operation of ITVK202 and ITVK203 (at the Wien, if it were there). These channels were used for HDIce dump viewers ITVMA01A and B (might have names wrong)

**MeV regions:**

Near FCup3:

[DC] Four corrector (2 sets) near dif pump station and FCup3, restore them:

* MHBM401H/V between manual and fast valve – On beam line; requires connection
* MHBM501H/V over bellows in from in IPMM501 – requires mounting and connection

[IC/VAC] Fast valve – Pull cable, interface locally and to VCG, mount electronics, and test

BCM + Current clamp receiver/chassis from Musson/Seaton

[IC/VAC] Power + Cable NEG VGPM401 on cross with VIPM401 [Software] Controls

[IC] ITVM401 connections, restore them. [software] Viewer is now a YAG.

[IC] FCup3 connections, restore them

[IC/VAC] VBVM501 connections, restore them

[LLRF] Yao cavity – Prototype receiver install + cable from LLRF [Software/LLRF] Controls

[Experiment] Place shielding around FC3 region

Spectrometer line:

[IC] IHAM703 was replaced, but need correct cable connections, verification it moves. Controls changes required for different harp style? If so - [software]

[IC/VAC] Power + Cable NEG added in front of IHAM703

New straight ahead line to water samples:

[IC/VAC] New valve VBVM602 – verify operation / hook up

Three new BPMs: IPMM602, IPMM603, and IPMM604

* [IC] Verify connections and operation
* [Software] Controls changes – Kyle working it already.

[DC] 3 new steering magnet sets: Verify & Polarity check installation. Update CED as appropriate.

* MHBM602AH/V: ITF07 Channel 11/12 rerouted
* MHBM602BH/V: ITF07 Channel 14 rerouted to vertical; Ch. 13 still needs rerouting to horizontal
* MHBM603H/V: ITF07 Ch 17/18 rerouted

Also, secure loose magnet cables on that rack.

Solenoid –

* [Install] Plumb LCW / Flow meter (from DC)
* [DC] Power Supply, Cabling, Integration
* [Software] EPICs contol

[IC] 2 new viewers: ITVM603 and ITVM604 – both YAG. Connect & interface.

[IC] FCup4 in/out

[IC] Video only channel at water sample area (Norris hooking up with Hannes Tuesday.)

Stepper motor controlled sample holder (Windham + Lu) – Mount after 80/20 table build [Experiment] and integrate

[Experiment] Build 80/20 shielding Table

[IC/Vacuum] Power + Cable NEG (x2): VGPM603 on cross with VIPM603. VGPM604 on cross with VIPM604A

[IC/Vacuum] VCGM604 Cathode Gauge – Cable, power, interface to EPICS

[Experiment] Place Decarad heads

[Experiment] Mount fluorescing screen after target

Safety System Group:

Relocate BLMs

Update gold masking

FSD for BCM Current clamp; from [IC]

FSD for Solenoid for [DC]

[ME] Design related:

Plate and 2”x2” support leg at FCup3

Camera holders: 2.75” and 4.625” flanges

Table for water sample holder (pictures for assembly)

[All system owners] Other: CED updates and verification for everything