notes-131203

Attending: RP, PH, ABr, AN, MP, PG, SG, AG, JP
Absent: KL
Invited: SW, JT, SG

Agenda:
1. Introduction : RP
2. MIPO work plan to CM38 : RP
3. Step IV status / issues
   a. SS1 : ABr
   b. FC2 : SW
   c. Magnetic Shielding : JT
   d. Quench Protection : ABr, SG
4. Planning for response to reviews : All
5. Report from MEMO : PH
6. AOB

1) 3 notes on Plan toward Step IV in progress for Janet ???:
   - cost
   - schedule
   - risks
   Two scenarios being considered, and requiring analysis
   - 3 CCs: 2 to RAL + 1 to MTA
   - 2 CCs: 2 to RAL

2) SS1 Report (Bross)
   - ABr going to Wang, NMR
   - open turret window on Thursday for visual inspection and removing leads for testing
   - HTS leads to be bench tested by Heng
   - ABr to install failsafe switches on vacuum gate valves (remain closed in case of power failure
   - will leave SS1 pumping through holidays and restart cooldown in January
   *** ACTION Bross - communicate delay to CERN crew and remind them to book tickets through FNAL

3) FC Report (Watson)
   - FC1 summary: - 16 runs, stopped at 188A
                  - requires new MLI layer between cryo-coolers
                  - requires re-tensioning of supports
   - FC2 summary: - marginally failed leak check: 1.08 mb-l/s vs 1.05 mb-l/s
                  - leak rate improved with LHe fill (don't understand why)
                  - begain cooldown 4 November, 12% faster than FC1
                  - stabilized at 8K
                  - radiation shield never below 120K
                  - LHe fill OK, but boiled off in 3 hours
                  - Tesla tech, used wrong port for LHe and caused N2 freezing and blockage, did recover from the blockage
                  - 1 of 2 cold mass temperature sensors failed
                  - need to negotiate plan with Tesla

4) PRY Report (Tarrant)
   - converging on merging PRY design into hall model (very slow)
   - STFC will provide the base on which the PRY will be built
   - assessing concrete quality for supports
   - study being performed to understand if vacuum ports will be moved outside of PRY
   - LH2 south mezzanine now decoupled from PRY
     - will need reconfiguration for Step V/VI
   - will require removal of LH2 pipes during absorber changes
   - study being performed to ascertain the need for the ToF cover plate
   - move trench services
   - Tracker issues:
     - existing fiber bundle light guides have natural bend that doesn't fit easily, may need to:
       - lower PRY fiber slot
       - lower cryo-stat
       - remove cryo-stat PSU from under (put it on side) - requires testing
   - optomistic schedule

- south side PRY - 25 June 2014
- north side PRY - 17 October 2014

5) Quench Protection (Bross, Griffiths, Hanlet)
   - stick with FNAL system for SSs and CCs
   - 2 19" racks in RR2 (1 required for 3 FCs)
   - need FNAL Technical Division schedule for providing 2 systems
   - DL offered to assist in building components
   - document written by Hanlet and Griffiths near completion
     - Bross requested that Daryl Oris be included in reviewing the document
   *** ACTION Hanlet - to organize meeting of parties

6) *** ACTION all - review MPB and RLSR documents for feedback - item 5

7) AOB: Bross CC update:
   - MLI wrapping was too tight
   - initially had 60W-70W heat load (should be <15W)
   - new heat load is 1.5W
   - expect CC to be cold by end of January