Hello All, Minutes from today’s meeting, Best regards, Jason

Present:, John Cobb, Steve Plate, Roy Preece, Paul Smith, Jason Tarrant, Holger Witte

Apologies: James Watson, Mike Courthold

Actions from previous meetings

         Mike C to let Jason know when decay solenoid closed up, in meantime Jason to ask David Pyke to delay south side ramp cut to at least first week in February.

Actions from this meeting

         Jason Tarrant to ask Craig Macwaters to confirm the tracker waveguide slot details and update TD-1189-1810 if required.

         James Watson to produce an interface drawing including the hole positions and nominal base/floor/shim height to send on to Steve Plate so the support legs of the PRY can be finalised, to be done in the next week to prevent delays in the schedule.  All legs to be the same (footplates & hole drillings), regardless of location.  This interface drawing and Jason’s TD-1189-1810 drawing will be used as part of the checking of Steve Plate’s drawings that Andy Nichols is having printed and checked.

         Steve Plate to design wedges or a link plate to mechanically connect across a nominal 30 mm gap required between the Virostek disc extensions (Holger said there would be no magnetic performance issues from this gap).  Also detail of backing plates for the gap between the Virostek plate and the Virostek disc extensions to be finalised…though might require confirmation that the ToF cage can be permanently removed.  There was some discussion for the requirement of these to be machined to fit in the axial direction (recessed faces), however they still need to be fitted via oversized holes and / or slots to allow fine tuning of their positions radially.  When the PRY is assembled for the first time consider dowels to locate parts so that these machined backing plates can be reused without modification or re-work, particularly to aid relocation of the PRY along the axis of the experiment where there is no adjustment hence why they would be recessed to fit.

         The support frame / legs will be delivered at the same time as the main shield plates to allow a full fit-check at the vendors site before it is accepted / shipped, therefore the supports will not be shipped separately a long time in advance.  Jason to update his schedule to accommodate this, assume for now all delivered from 01/07/2014 unless informed otherwise by Steve Plate or Alan Bross.

         Jason Tarrant & James Watson to check the fixing arrangement for the legs of the PRY as it differs significantly from Steve Plate’s pre-load method.  The original idea to provide a full platform support (all apart from S-E corner) has been found to be impractical due to the complexity of the trench roof support and the many ‘live’ services that are attached to it, a rework of this to accommodate a full platform would be too time consuming and costly.

         Steve Plate to supply Holger Witte with the weights of the parts for shipping quotes.  Shipping plan to be circulated (with rough dates) to show what parts of the PRY will arrive at RAL and when. Any change to delivery dates to be fed back to Alan Bross, also any delivery updates to be cc’d or forwarded to Jason Tarrant for update of the installation schedule.

         Steve Plate to forward to Jason the latest model of the PRY in .stp drawing exchange format and the drawing for the assembly of the PRY.  There was discussion about when Steve should visit to assemble the PRY, the support frame can be pre-assembled but the main shielding plates (the heavy engineering works) would require Steve to visit.

         Holger Witte and Mike Courthold to discuss and confirm the quench scenarios that may worst affect loads.

         Holger Witte to forward on ToF 1 analysis to Maurizio Bonesini to establish if the ToF magnetic shielding requires a rethink or if the ToF cage can be left out.

         Paul Smith to update analysis of gas panels to include additional considerations of the tie-down slots and the backing plate which can potentially cause a significant change to the field in the region of the gas panels.  Paul to check the magnetisation curves he presented with Holger. Paul and Mike Courthold to establish a maximum field requirement in the region of the gas panel for safe operation of the equipment.

         Holger Witte to circulate any changes to material specification…if there are issues with steel procurement (mentioned possible issues finding a suitable vendor for the steel supply).

There was some discussion regarding localised internal forces (magnitude and direction) inside the shield plates as opposed to the integrated load pulling or pushing the whole plate, because these may lead to high internal stresses in the shielding plates. It was thought that if high internal stresses were possible this might have been seen in the Virostek plates during SS testing (if were magnets at full power?).

If I missed anything or anything to add, correct, remove etc. please let me know,

DONM = 04 January, CR01 R1 for those at RAL