## Present

Ian Taylor, Kiril Marinov, Paul Smith, Mike Courthold, Melissa George, John Cobb (PT), Pierrick Hanlet (PT), Jason Tarrant (chair)

- 1. Message from Ken to Kiril (via JT) We will source design effort from ICL or PPD for the PSU & turbo pump shields.
- 2. Paul's Talk
  - a. Meshing errors Using Opera's BH curve resolved (as opposed to the JHR curve that has an irregularity near the start)
  - b. Klaus at VF using R16 Opera and slashing solve times, Paul to get copy ASAP
  - Luke Fry list issues as drawing does not specify dimensions, Action: Luke and/or
    Craig to get positions of 'Fry list' components for Paul
  - d. Action: Mike & Paul to visit VF before 'holiday season'
- 3. Kiril's Talk
  - a. Kiril showed the effect of different thicknesses of 1010, 10mm & 15mm, concluded 15 mm 1010 should be OK with option for +5mm plates if required
  - Showed a shield option with no chimney and the modelling that showed there to be sufficient shielding around the sensitive parts of the turbo pump even with no chimney
  - If the solid single wall shield is too heavy then Kiril could look at a layered construction but the engineering of the support of the solid shield not looking overly difficult yet
  - d. Kiril mentioned that the direction of the field may be changed by / in the magnetic shield
  - e. Action: Mike C to check for any magnetic / ferrous content of the turbo pumps that might cause a draw on the magnetic field inside the shield
- 4. Melissa's Talk
  - a. Melissa has post processed the R9 model and sent data to Celeste. Mike C thought it would be more relevant to use 'mild average' rather than 1010 BH curve for this area, **Action: Melissa will run the model again with mild average.**
  - A coarsely meshed model of R9 was shown that required refinement, Action:
    Melissa will speak to Klaus @ VF to ask for tips on refinement and when ready will send on the model to VF for checking.
- 5. AOB None