HLRF Options WA

- Variants: Klystron Cluster, DRFS
- Issues:
 - Klystron Cluster
 - R&D on proof of principle
 - Beam control issues
 - DRFS
 - Primary issue 'Design for Manufacture' (aggressive cost reduction)
 - Single-tunnel integration
- Action item:
 - All three sample sites to evaluate/compare impact of both options (at least superficially)
- Action Item:
 - DRFS better tunnel integration design
 - Klyst. Cluster –
- Action Item:
 - Identify (maximise) common design features (if possible)

Positron Source SB-2009 WA

- Undulator Source system @250 GeV with QWT (1/2 RDR power)
 - Integrated (mature) solution exists
 - Action items: re-evaluate parameter sets (spec. target load) for
 - QWT vs FC/LL
 - Yield at 150GeV = 1.0 or 1.5
 - Note: parameters also for RDR beam power (margin)
 - Yield vs Ebeam (100-250 GeV)
 - Action item: target shielding curves size of 'shielding box' for CFS
 - Action item: compile comprehensive review of beam dynamics
 - Action item: discuss materials test at FLASH
- Alternative '300Hz' solution R&D to continue
 - R&D on windows, li-targets etc applicable to any source
 - Discuss scope for integrated system design (including cost-guestimate)

Other AS WA

- E- source
 - No change from RDR in lattice layout
 - Action item: evaluate integration in BDS tunnel
 - spin manipulation
 - Action item: consider possibility of better integration with DR infrastructure.
 - Independent operation
- BDS
 - WA take lattice supplied this meeting for integration studies
 - Action item: Evaluate complete geometry options for e+ and e- sides
- DR
 - Action item: for 3.2km ring, what are the bunch parameter limits?
 - (e-cloud)
 - Comment: ~1.5 km ring looks attractive!
- BC
 - Single stage as presented.
 - Action-item: review / re-evaluate stray field tolerances (beam dynamics)
 - Action-item: evaluate BC phase/amplitude specs (compare to RDR)

RDR vs TDR Baseline(s)

- RDR remains a valid and workable solution for the ILC
- TDR baseline (subject of this meeting) will be a second option
 - Single-tunnel variant, taken to same level of maturity as RDR
- Propose both baselines will be cost updated by 2012
 - Expect some feedback from TDP-2 activities on RDR design
 -> RDR'
 - Need to understand resource implications.

Risk Register

Update not realistic to achieve this meeting

 PM action item: take information supplied today and review.

- Produce updated version by ALCPG for review/discussion
 - Interaction with TAG leaders will be needed

CFS Interaction

- Required for cost impact evaluation
- Information on RDR to SB2009 differences should be supplied
 - WBS-like line items (excel)
- Staged (integration) meetings (every week)
 - Walk through each system (5 weeks)
 - RTML
 - ML
 - DR
 - BDS/MDI
 - Central Region Integration (including sources)
- CFS/PHG to evaluate information and begin analysis
- Time to iterate as needed before ALCPG
 - Face-to-face? May be difficult.

Availability Studies (single tunnel)

- Task force:
 - Himel, Carwardine, Elsen, Walker, (KEK?)
- Review:
 - AVAILSIM "philosophy"
 - Input numbers!!
- Studies
 - Define 'operations philosophies'
 - Scheduled downtime, recover time, "opportunistic" machine studies...
 - Identify specific reports for ALCPG
 - E.g. graph of availability versus Ecm.

Comments/Issues

- Lattice and layout (design work)
 - Who in the world can do this?
- Documentation
 - ILC-EDMS will be our primary 'working space'
 - (keeping it all in one place!)
- Comparison table (SB-2009 vs RDR)
 - PM to prepare top-level chart based on input from this meeting
 - (linked to RIsk Register)
 - Will need discussion and iteration.

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