



PM Report

AS TAG Leaders Meeting

08.07.09



Topics

- R&D Plan release 4
- ADI WebEx meetings (cost and design)
- Central region integration face-to-face meetings
 - **SLAC and Daresbury Lab**
- Availability Task Force (AvTF)
- ILC-CLIC activities
- Planning for ALCPG and beyond



R&D Plan

- Draft Rel 4 Submitted to FALC
 - **Meeting 12-13.07**
- Relatively minor update
- Noteworthy (for AS):
 - **Resource tables (Appendix 1) now 2009-2012**
 - **Section 4 modified**
 - Re-titled: “Machine Design and Cost-Reduction Activities (Accelerator Design and Integration, ADI)”
 - Added brief description of “~7 SB2009 elements” plus timeline for re-baseline
 - **CesrTA text updated (beyond 2012)**
 - **E+ source R&D (300Hz @ KEK) modified**
 - No reference to BN window
 - Added planned hybrid crystal R&D
- Appendix B (WP, Goals, Milestones) *Not Updated!*
 - **Primary responsibility for TAG sections is TAG leader**
 - **Request for feedback and update sent 4.06.09 – only one reply.**
- Formal public release date: Friday 17.07.09
- Next update (Rel 5) Planned for December 2009
 - **Note busy time – also preparing draft baseline proposal document**
- Expect major update (re-write) for Rel 6 in June/July 2010 (end of TDP-1)



*ILC Research and Development Plan
for the Technical Design Phase*

Release 4

July 2009

ILC Global Design Effort
Director: Barry Barish



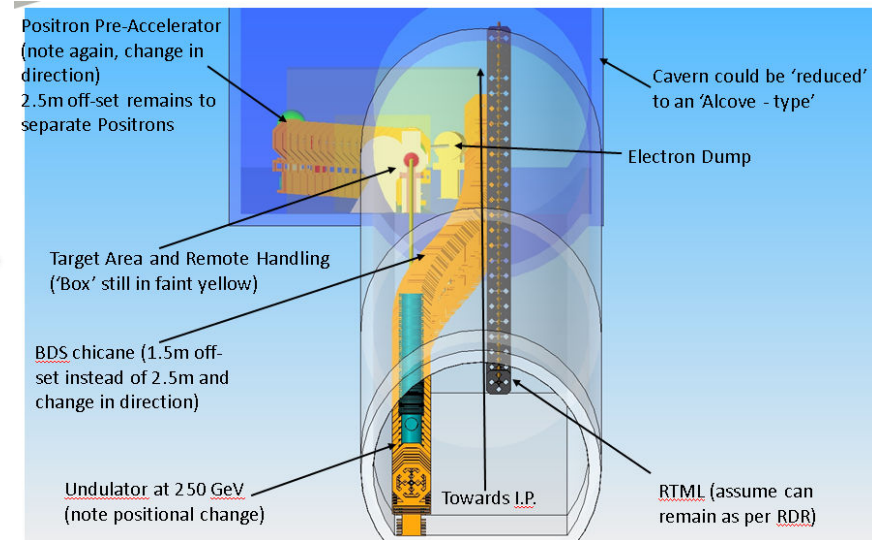
AD&I (SB200) Meetings

- Note final release of DESY Meeting Summary available in ILC-EDMS
 - http://ilc-edmsdirect.desy.de/ilc-edmsdirect/file.jsp?edmsid=*879845
- Follow-up AD&I WebEx Meetings (tentative)
 - **Wed 15.07 Low-P issues**
 - **Wed 12.08 Single linac-tunnel and HLRF**
 - **Wed 09.09 Central injector region integration**
- Focused on cost & design
 - **Detailed WA and information exchange to allow cost estimations to proceed (Q&A like sessions)**
- Detailed agendas to be announced soon



Central Region Integration

- Complex 3D integration issues
- 3D CAD work an important aspect →
- Many questions need resolution



N. Collomb – Daresbury Lab

- Interaction between relevant TAG leaders and CFS needs to be focused
- Two proposed CFS 'focus' meetings (face-to-face)
 - **SLAC 20-21.07**
 - **Daresbury Lab 3-4.09**
 - **(WebEx also available)**



Availability Task Force (AvTF)

- Availability arguments were a strong component in decision for RDR
 - **Dual tunnel solution (accessibility)**
 - **e+ KAS (compensation for e+ availability)**
- SB2009 explores a single-tunnel variant with two possible solutions for HLRF
 - **Klystron Cluster Scheme (KCS)**
 - **Distributed RF Source (DRFS)**
- AvTF has been charged to look for availability solutions for SB2009
 - **Initial focus on ML single-tunnel, KCS and DRFS**
- Formal Members:
 - **Carwardine, Elsen, Himel, Paterson, Ross (chair), Shidara, Terunuma, Walker, Yamamoto**
- Weekly WebEx meetings (3 so far)
 - **InDiCo site: <http://ilcagenda.linearcollider.org/categoryDisplay.py?categId=177>**
 - **ILC-EDMS: [ilc_Availability_Team](#)**
 - **Mailing list: ilc-ops-availability@desy.de (archived)**
- 3 Sub-Groups
 - **Group 1: AVAILSIM simulations ([Himel](#), Elsen, Walker, Paterson)**
 - **Group 2: Analysis – definition of parametric studies etc. ([Carwardine](#), Paterson, Ross)**
 - **Group 3: Benchmarking [alternative analysis to AVAILSIM] ([Shidara](#), Terunuma)**



ALCPG (Albuquerque, NM)

- 29.09-03.10.09
- <http://panda.unm.edu/LCWA09/index.phtml>
- GDE WG:
 - **Particle Sources: Axel Brachman, Jim Clarke**
 - **Damping Rings: Suzanna Guiducci, Mark Palmer**
 - **Main Linac: Chris Adolphsen, Hitoshi Hayano**
 - **Beam Delivery System: Deepa Angal-Kalinin, Andrei Seryi**
 - **CFS: Vic Kuchler, Atsushi Enomoto**
 - *(LET) Simulation – Kiyoshi, Daniel, Nikolai??*
- *Must now begin to put together parallel programme*
- Must include:
 - **SB2009 / ADI activities**
 - **On-going R&D status/results/planning**
- PMs will produce 'charge' for WG along these lines (soon)



Beyond ALCPG

- Consolidation of SB2009 proposal
 - **Preparation of draft proposal report**
 - To be submitted to Director/EC December 09
 - **Expect additional ADI face-to-face meeting will be needed to finalise draft**
 - End of November (TBD)
 - **Will be sent to AAP (by Director) for review**
 - Oxford 6-8.01.2009

- TDP-2 Baseline Decision
 - **Early 2010 (after AAP review feedback)**
 - **Process not yet determined (homework for PM/EC)**
 - **Description of new baseline expected in TDP-1 Interim Report due mid July.**

- Other Work (2009)
 - **R&D Plan Rel 5 (Dec.)**
 - **Preparation of back-ground material and presentations for AAP**
 - **Begin Planning TDP-2 technical work**
 - An eye on re-write of R&D Plan for REL 6