

## Notes from TEB webex meeting, 8th Oct, 2012

### Participants

Ross, Foster, Harrison, List, Barone, Yokoya, Hayano, Carwardine (chair), Yamamoto, Phinney

### Slides

<https://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=5747>

### Editing updates

#### **Eckhard (TDR1/SCRF)**

- \* New version committed yesterday
- \* contains updates based on comments from Akira from some time ago
- \* Make text more concise, add conclusions, etc
- \* Descriptions of S1-global - where to put these in the chapter
- \* Hope is that we have something that reads as an r&d store and gives outlook into the future
- \* Still areas where input is needed from experts
- \* Some places where items maybe should disappear?
- \* Cryo, RF chapters: are in raw state and need to be put into prose - lot of jargon
- ex. PkQI - never explained
- \* Will finish these last few sections, then move on to reading TDR2
- \* Some places have hefty editing - needs review/checking by experts

#### **Akira**

## TDR1

- \* To read, before can make major comments
- \* Previous draft had been mixed up - had been discussed with Eckhard previously

## TDR2 (ch3)

- \* Comment from Adolphsen: lost 'Main Linac' from the title of the chapter
- \* Cavity design: had tried to eliminate duplication from TDR1, but made the chapter quite weak in cavity production
- \* Plans to ask for help from Rongli

[Eckhard: bullet lists in TDR1 he'd changed into tables. Could maybe put the same tables into both parts]

- \* Cavity integration: to discuss with Hayano, especially on cavity test procedure. Testing procedure (fraction for repair) needs offline discussion
- \* Cryomodule: CM and cryogenics were previously combined, but Nick has separated them and added more description on cryogenics. Akira discussed with Perini today
- \* Drawing of cm cross-section. Strategy to get CM4 cad dwg from Fermilab?
- \* Pressure code: needs more emphasis, so maybe create a separate section to address this (discuss with Perini and Peterson)
- \* HOM absorber: nobody is currently taking care of this in ILC - will discuss with Marc and Nick how to handle this in TDR
- \* Quad: include something about bpm
- \* Cavity testing: important to take closer look at XFEL test procedures
- \* Peterson to go through cryogenic description, separate descriptions for KCS and DKS

[Marc: when will Paulo, Rongli, et al give us the new text? Akira has asked for them this week]

## **Marc**

- \* Per Phil: Sec 1-6 now have a sound basis - ready for the top-level editing
- \* Will continue to have problems with tables
- \* Handling: in good shape, no reason to rewrite it
- \* Installation: present version doesn't function as it is supposed to. Came from RDR? Doesn't know what to do with this section now
- \* Gerry has a nice section on cost basis in the Cost chapter
- \* Schedule: new version was sent by CERN last week - much better, in pretty good shape. Marc will talk with Gerry about who now owns this now it's moved to C&S chapter. Ewan has read it - Marc had asked Ewan to act as first-level editor

## **Kaoru**

- \* Some minor edits in ATF2 and CesrTA sections - should be stable
- \* ATF2 - should consider text 'finished' and then can update with new results as they come in - main thing is the beam size
- \* AS R&D: no comments from EC, but has some significant changes to the E+ draft - already incorporated into TeX in Forge, so will be in the build

Marc: last section in Ch3 - LLRF - needs work

## **Nan:**

- \* AS Design: had started a re-read of this before EC review. EC comments are much too detailed to address directly, so is awaiting responses from authors.
- \* DR: still open as to whether to cut down in TDR2, move to TDR1
- \* Had sent comments to Marc on some EC comments for response back to EC.

## **Top-level editing**

- \* Maura will make a pdf build of the entire TDR1/TDR2 for the top-level editing to begin today
- \* Mike + John will be doing a read-through of TDR1, Brian (+Nick) read-through of TDR2
- \* John requested that a member of Akira's team to assist with a top-level read of the combined TDR1/SCRF and TDR2/ML chapters
- \* Eckhard will read TDR2/ML chapter once he's finished with editing the last sections of TDR1/SCRF
- \* The more people that read and comment on the entire TDR or parts thereof the better it will be.
- \* Comments on TLE to be brought to next week's TEB meeting for discussion

### **Chapter-by-chapter status for the Top-level editing**

( Note that all chapters/sections will be part of the TLE build, regardless of whether they're in flux or are stable, and they should be considered as part of the TLE read-through to the extent they are stable

#### **TDR1**

- \* Intro: still some editing to address EC comments (Brian)
- \* SCRF R&D: still a lot to do, but especially given changes to framework etc, should be strongly considered during the TLE
- \* Beam Test Facilities: additional results to be added to FLASH + still some EC comments to address, minor edits done to CesrTA and ATF2, but otherwise stable
- \* CFS Analysis of options: stable, with exception of possible re-grouping of references into topical areas
- \* AS R&D: recent major changes to E+ section will be part of build. Should consider stable for TLE
- \* Future R&D: content is stable, but there are inconsistencies with what's written in the main R&D chapters - should specifically be looked at as part of the TLE read-through

## TDR2

- \* Intro: Brian has edited and sent edited version to Barry for comment (expected later today), but revised version won't be in the build
- \* Layout: Brian has edited, will be sent to Maura for inclusion in the build
- \* SCRF / ML: still a lot to do, but especially given changes to framework etc, should be strongly considered during the TLE
- \* E-, E+, RTML: should all be considered stable
- \* DR: Nan still working on this, considering whether to move some content to TDR1 AS R&D
- \* BDS: Nan is working on first-level editing, needs work
- \* Global Systems: only Controls section is available
- \* Commissioning/Operations/Availability: written by Ewan based on RDR text, Marc is editing (?)
- \* PIP: stable
- \* Upgrade: will be worked on after LCWS following discussion on Physics options. Otherwise, treat as stable (?)
- \* Future engineering / Risk mitigation: not yet available
- \* CFS: Sections 1-6 + Handling Equip should be considered stable; Installation definitely needs work
- \* Cost / Schedule: Cost section not yet available (with Gerry and EC); Schedule section: new version since last week: much improved and in good shape and has been checked by Ewan (treat as stable)
- \* Evolution of the Design: now an appendix in TDR2 (moved from TDR1)