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AD&I meetings: plans and goals

Nick Walker, Kaoru Yokoya ILC-ADI FUZE meeting 5.06.14



What's in store

- Our mission
- Primary goals
- Structure of the (FUZE) meetings
- Change Management
 - Getting organised



Our Mission

- ADI team is responsible for the overall design of the ILC
 - But not the development of components or associated R&D (e.g. SRF cryomodule)
- Short term focus: identifying work leading up to LCWS (6-10.10.14)
- Need to review what was said and done at AWLC14
 - Look at our resources
 - What are priorities
 - Set ourselves some milestones and deliverables

Make a list of action items which we think we can achieve for LCWS

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Who are the "AD&I team" ?

LCC-ILC Director: M. Harrison, Deputies: N. Walker and H. Hayano KEK LC Project Office Head: A. Yamamoto						
Sub-Group	Global Leader Deputy/Contact p.	KEK-Leader* Deputy	Sub-Group	<u>Global Leader</u> Deputy/Contact P.	<u>KEK-Leader*</u> Deputy	
Acc. Design Integr.	<u>N. Walker (DESY)</u> K. Yokoya(KEK)	<u>K. Yokoya</u>	SRF	H. Hayano (KEK) C. Ginsburg (Fermi), E. Montesinos (CERN)	<u>H. Hayano</u> Y. Yamamoto	
Sources (e-, e+)	<u>W. Gai (ANL)</u> M. Kuriki (Hiroshima U.)	<u>J. Urakawa</u> T. Omori	RF Power & Cntl	<u>S. Michizono (KEK)</u> TBD (AMs , EU)	<u>Michizono</u> T. Matsumoto	
Damping Ring	D. Rubin (Cornell) N. Terunuma(KEK)	<u>N. Terunuma</u>	Cryogenics (incl. HP gas issues)	<u>H. Nakai: KEK</u> T. Peterson (Fermi), D. Delikaris (CERN)	<u>H. Nakai</u> Cryog. Center	
RTML	<u>S. Kuroda (KEK)</u> A. Latina (CERN)	<u>S. Kuroda</u>	CFS	<u>A. Enomoto (KEK)</u> V. Kuchler (Fermi), J. Osborne (CERN),	<u>A. Enomoto</u> M. Miyahara	
Main Linac (incl. B. Compr. & B. Dynamics)	N. Solyak (Fermi) K. Kubo (KEK)	<u>K. Kubo</u>	Radiation Safety	<u>T. Sanami (KEK)</u> TBD (AMs, EU)	<u>T. Sanami</u> T. Sanuki	
BDS	G. White (SLAC), R. Tomas (Cern) T. Okugi(KEK)	<u>T. Okugi</u>	Electrical Support (Power Supply etc.)	TBD	<u>TBD</u>	
MDI	<u>K. Buesser (DESY)</u> T. Tauchi (KEK)	<u>T. Tauchi</u>	Mechanical S. (Vac. & others)	TBD	<u>TBD</u>	
	core team		Domestic Program, Hub Lab. Aci uns	mailing list	<u>H Hayano</u> T. Saeki	



Making Lists

- Excel sheet with list of items (start of a WBS)
 - Should have been reviewed at AWLC14
 - Over next weeks would like to update/refine this!
 - Pick key items that can be achieved by LCWS
- Priority remains: CFS requirements and specifically tunnel lengths/volumes
 - An accurate machine layout
 - Do our existing lattice (designs) fulfil requirements?
 - Attention to: MPS, diagnostics sections, timing etc.
- To repeat: identify concrete deliverables for LCWS



Common themes

- For each ADI meeting we will identify a themes in advance for WGs to report on
 - Example: expected beam loss rates during operation
- Themes will be driven by priority requirements from Japanese Team (CFS) considering site-dependent design
- WGs should prepare for subsequent ADI meeting where we will discuss the issue (theme) as a team
 - Not necessarily answering the questions,
 - but at least understanding the problem,
 - and understanding what needs to be done.

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ADI meeting template

Introduction / announcements

Including update from Japanese team

• Brief status reports (round table):

- Sources
- Damping Rings
- ► RTML
- Main Linac / bunch compressors
- BDS
- MDI
- ► CFS
- Special theme report(s)
- Next meeting agenda / action items



ILC Change Management

1. Proposing a design change

- Change Request (CR)
- Change Request Creater (CRC)
- Written document
- Submitted to Change Management Board (CMB)

2. Expert review

- Reviewed by CMB with
- additional experts as needed
- CMB defines the scope of the review
- Communication with all stakeholders
- Capture relevant documents

3. Decision

- Results with recommendation from (2) presented to ILC Director
- Written summary document
- ILC Director (in consultation with the CMB) makes final decision, or
- Decision is escalated to LCC directorate.

4. Updating TDD to reflect the change

- CMB identiifies team (and team leader) to implement change.
- Generate scope of work
- Develope implementation plan
- Release of updated TDD

Mandatory documents

EDMS update!

Change Management Board (CMB)

• ILC Technical Board

- Mike Harrison (BNL, CMB chair)
- Nick Walker (DESY)
- Olivier Napoly (CEA)
- Nikolay Solyak (FNAL)
- Marc Ross (SLAC)
- Nobuhiro Terunuma (KEK)
- Yasuchika Yamamoto (KEK)
- Akira Yamamoto (KEK)
- 1 CFS rep
- 2 Physics and detector reps
- Change Administrator (Benno List)
- + additional experts as deemed fit

- Initial assessment
- Scale of review (determine change review panel)
- Decision
- Implementation planning

Change Register

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Will be published

• Comprehensive list of modifications

- ▶ being considered (not yet formally a CR) ← placeholder
- Formal CRs under review / consideration



Change Register: State

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ally becomes a part of RTML.	Under consideration In preperation Submitted CMB Review Deferred to review pane Escalated to LCC Director Accepted / Deferred Accepted / Implementin Rejected Completed	orate		

CR request document submitted

Important for:

- Communication
- Transparency
- Organisation

Who can (formally) submit a CR

- ILC Technical Board (or member thereof)
- WG coordinators



- Designated people from Physics & Detector community
- LCC Directorate / LCB
 - change of high-level scope



CM: Next steps

- Distribute CM document
- Produce "first draft" of CR register
 - Concepts and possibilities picked up at AWLC14
- Review CRR
 - ► ILC-TB
 - WG coordinators
- Revise CRR and publish to web
 - Thereafter maintain it

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Other (ADI) homework for WG

- Review/update WBS document
- Review Technical Design Documentation
 - http://www.linearcollider.org/ILC/GDE/technical-designdocumentation#fromedms

- Already requested at AWLC 14
- Should be ongoing
- Likely we will focus on each WG in turn in a separate focus meeting