



# Status of the application – issues and problems

## High Luminosity LHC Design Study (HL-LHC-DS) proposal

20 October 2010

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# Proposal status (version 2)

- Plan to submit  
Thurs 18 Nov'10

- Less than 1 month

- Current version

- Many empty sections (red arrows)

- Work Packages

- The main contents of the proposal (circled)

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# Work Package coordination

Work Package	Leader	Co-leader / deputy
WP1 Management	Lucio Rossi, CERN	Oliver Bruning, CERN
WP2 Accelerator Physics	Oliver Bruning, CERN	Andy Wolski, UNILIV
WP3 Magnet Design	Ezio Todesco, CERN	GianLuca Sabbi, LBNL
WP4 Crab Cavity Design	Erk Jensen, CERN	Ed Ciapala, CERN or a non-CERN option?
WP5 Collimation and Beam Losses	Ralph Assmann, CERN	?
WP6 Cold Powering	Amalia Ballarino, CERN	?

# Work Packages 7-14

## Work Packages not directly supported by the EC

Work Package	Still need
WP7 Machine Protection	Contact name, paragraph of text
WP8 Cryogenics	Contact name, paragraph of text
WP9 Energy deposition calculations	Contact name, paragraph of text
WP10 Integration	Contact name, paragraph of text
WP11 Desintallation and Installation	Contact name, paragraph of text, title?
WP12 Hardware commissioning	Contact name, paragraph of text
WP13 11 tesla two-in-one Nb <sub>3</sub> Sn dipole for collimation insertion	Contact name, paragraph of text, title?
WP14 Machine-Experiment Interface	Austin+Marzio to check v2 proposal text

# Work Package descriptions

Work Package	What is in v2	Still need
<b>WP1 Management</b>	Text (v2)	Partner list and who will do what, PMs, task1.4 deliverables and milestones, task1.6 text and industry-related deliverable/milestone. See comments in v2 of proposal e.g. reduce number of deliverables.
<b>WP2 Accelerator Physics</b>	Text (v2), partners, PMs, budget	Need to say who will do what in task descriptions, see my comments in v2 of proposal
<b>WP3 Magnet Design</b>	Text (v2), PMs (v2)	Any additional budget e.g. travel, materials, see my comments in v2 of proposal
<b>WP4 Crab Cavity Design</b>	Text (v1), PMs	Updated text, PMs for FNAL, additional deliverable and milestone details (see my comments in v2)
<b>WP5 Collimation and Beam Losses</b>	Partners, preliminary budget	TEXT (v1 was due 1 <sup>st</sup> October)!
<b>WP6 Cold Powering</b>	Text (v2), PMs	University of Florida? SOTON PM for task 6.2? See comments in v2 e.g. deliverable dates all identical, check milestones are all in v2

# Finalising the partner list

Partners	WP1	WP2	WP3	WP4	WP5	WP6
CERN	Yes	Yes	Yes	Yes	Yes	Yes
CEA	?	Yes	Yes	Yes		
CNRS				Yes		
DESY		Yes				
INFN		Yes	Yes			Yes
BINP		Yes				
CSIC		Yes			Yes	
EPFL		Yes				
RHUL					Yes	
SOTON						Yes
STFC		Yes				
ULANC				Yes		
UNILIV		Yes				
UNIMAN		Yes			Yes	
KEK	?	Yes	Yes	Yes		
BNL		Yes	Yes	Yes		
FNAL	?	Yes	Yes	Yes	Yes	
JLAB				Yes		
LBNL	Yes	Yes	Yes	Yes		
SLAC	Yes	Yes		Yes	Yes	

# Partner details

## Currently missing some details:

- **Partner descriptions:**
  - CERN
  - INFN
  - BINP
  - SOTON
  - CNRS: is LPSC the only lab (WP4), if so need an updated description
- **Technical contact person:**
  - INFN
  - KEK
- **Administration contact person:**
  - All partners
- **PICs:**
  - BNL
  - JLAB

## Still to come:

“**A forms**” – a template will be sent to you to be completed in the coming week

**Partner letters of commitment**  
– a template will be sent to you to customise and get signed by relevant authority figure at your organisation



# Timeline until submission

- **Wed 20 Oct (today):** Final list of partners per work package
- **Fri 29 Oct:** v3 of proposal
- **Fri 5 Nov:** Final WP descriptions and budgets
- **Wed 10 Nov:** Final budget frozen
- **Wed 10 Nov:** letters of commitment from partner labs
- **Thurs 18 Nov:** proposal submission

	M	T	W	T	F	S	S
October			20	21	22	23	24
	25	26	27	28	29	30	31
	1	2	3	4	5	6	7
November	8	9	10	11	12	13	14
	15	16	17	18	19	20	21



# In conclusion

- **Send updates and information to [kate.kahle@cern.ch](mailto:kate.kahle@cern.ch)**
  - Check my comments and edits in the latest version (v2) of the proposal:  
<https://espace.cern.ch/HL-LHC/Proposal Drafts/>
  - Copy-paste the relevant text from the proposal into a new word file
  - Select “Tools – Track Changes”
  - Edit, save and send file to [kate.kahle@cern.ch](mailto:kate.kahle@cern.ch)
- **All information available on the website: <https://espace.cern.ch/HL-LHC/public/>**