



- Paul Faugeras retired at the end September 2002
- Founder of much of the Project Management at the LHC project
- Fought many a long battle to get established a new way of working at LHC/CERN
- Established the Technical Baseline and planning for the machine
- Last seen in China, New York , Paris and the odd visit to CERN

Creation of an Installation Co-ordination group

- Recommendation of Taskforce 5 in February 2002
- Rubber stamped in a meeting of May 7
- Appointment of P. Ciriani at June Council
- Claude Hauviller named as Group Leader
- Presentation at the TCC of 27 September
- Management endorsement 15 October
- Group took over full responsibility for Installation Co-ordination 1 January 2003

What's happened

Mandate based on the "13 points" of the meeting of 7 May

 \checkmark The definition and maintenance of data bases needed for the assembly, installation and eventual operation of the machine. (Tools by EST/ISS)

✓ Establishing and maintaining, via engineering change control, the machine baseline. (Project tracking in collaboration with cost control). *Creating and maintaining the project Web pages*.

- Providing and keeping up-to-date the integration and layout drawings for installation
 Design of the infrastructure and definition of transport needs and requirements
- *The quality assurance plan and its enforcement*
- ✓ Establishing the installation work packages and the corresponding logistics
- \checkmark Allocation and management of space
- ✓ Site preparation (small works)
- \checkmark Overall on-site supervision and corrective measures
- ✓ Training and access management
- ✓ Site safety co-ordination
- \checkmark Co-ordination of individual and system tests
- ✓ Sites management

A Group in charge of configuration management, the integration studies, the coordination of the installation and the hardware commissioning of the LHC

mandate Coordination of the installation of the LHC machine, its injection lines and the infrastructures in the experimental halls. Hardware commissioning of the LHC sectors and injection lines.

Composition

Made up of people from several divisions and groups.

EST/IC Organigram

EST-IC LHC Installation Coordination





Mandate of the LHC Project Technical Coordination Committee (TCC)

The LHC Technical Co-ordination Committee will oversee the technical coordination of the LHC machine by consultation across the various divisions.

In particular it will:

- •Maintain the General Co-ordination Schedule
- •Review the technical baseline of the machine and where appropriate approve changes or additions.
- •Follow the progress of the installation and hardware commissioning of the LHC machine.
- •Allocate the overall space requirements for the project.
- •Assure the provision of adequate infrastructure and general services.
- •Consider matters of safety related to the project.

•Its members should consist of representatives from each of the major systems involved in the LHC project.

The committee reports to the LHC Technical Board.

40 Members 26 Alternates Many informed

Ex officio		
A. Scaramelli	ST Division Leader	

Member (Div	ision-group)	Alternate	
	ST Di	vision	
J.L. Baldy ST-CE P. Ninin ST-MA J. Pedersen ST-EL B. Pirollet ST-CV I. Ruehl ST-HM		J. Osborne R. Nunes J.C. Guillaume M. Wilhelmsson S. Prodon	

Plus invited speakers and informed



Normally the last Friday of each Month

Typical Agenda •General Information •Hardware baseline and ECRs •Installation and follow-up of planning •Main Topics

•All information available on the Web from the LHC home page

Revised Co-ordination Schedule



- New version is 1.7 (2nd round approved at TCC 28 March)
- What's changed?
 - Sequence of sector installation has been changed
 - 7-8, 2-3, 1-8 (No change)
 - 4-5
 3-4
 5-6 (No change)
 6-7
 1-2
 - Late CE deliveries and re-scheduled general services baselined
 - No QRL commissioning over Xmas period 2003/2004
 - Installation of cryomagnets during QRL commissioning
 - TI8 rescheduled

• Consequences

- Slack in old schedule distributed between the sectors
- First magnet could descend during December 2003 (Now scheduled for 12 January)
- First interconnects in May 2004
- TI8 test with beam delayed to September 2004
- Injection test limited to sector 8-7 but still in April 2006
- Last magnet installed in August 2006
- Start-up still scheduled for April 2007

TCC 28 March – S. Weisz



P. Proudlock 25/03/03

Dashboard – Dipole cold masses



LHC Progress Dashboard



Updated 31 Mar 2003

Data provided by P. Lienard AT-MAS



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LHC Progress Dashboard



Updated 31 Mar 2003

Data provided by P. Lienard, D. Tommasini AT-MAS



Outside SM18



SMA18 - Cryostating



SM18 Magnet Tests



String 2 - Run 3

Insulation vacuum OK Cool down starts on April 7th Run lasts until end June 2003

- Heat Load Measurements
- Quench Propagation
- Gas Desorption on Beam Screen
- UNICOS control system
- Line N cool down time
- 600 A & 6 kA Prototype Power Converters



SSS cold mass



Quadrupoles MQM



TT40 transfer line installation

Transport vehicle for transfer lines

Transport vehicle for main magnets

SMI2

J.L. Baldy/ST Division – "SMI2/SDI2 preparation" - TCC meeting 28 March 200 P. Proudlock 25/03/03

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SMI2 towards SDI2

J.L. Baldy/ST Division – "SMI2/SDI2 preparation" - TCC meeting 28 March 200 P. Proudlock 25/03/03

Cryomagnet preparation in SMI2

- ST installing general services until end July 2003
- AT prepares hall during August
- First Cryodipole arrives September
- By December,
 - ~15 Cryomagnets fully prepared and ready to install
 - First magnet will probably descend 12 January 2004
 - ~ 110 Cryodipoles tested and most stored on Prevessin site
- By February 2004,
 - Total of 50 cryomagnets will have passed through SMI2
- Then production of ~60 cryomagnets per month

Concluding Remarks

- A new and critical stage of the project has started
 - We are very much in the spot light
 - We have a key date to start QRL installation on 16 June
- A new general schedule has just been issued
 - It is vital that everyone respects this
 - Specific planning must be in accordance with this
 - All planning must be co-ordinated with EST/IC/Logistics and Co-ordination
- More than ever we need to work as one team
 - You depend on others and others depend on you
 - Communication is essential for success
 - Project engineers need to follow integration studies
- We have tight budgetary constraints
 - Everyone needs to be aware of costs
 - EVM is a reality, use it to help you
- The field work has started
 - You need to closely supervise what is going on and respond positively
- I'm afraid there's a lot of hard work ahead
 - I very much hope it will be enjoyable and rewarding!!

Thanks for your attention