Date: Wed, 15 Mar 2017 11:39:06 +0100

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Subject: Upgrade workshop: RE3/1, 4/1 integration and plans

Parts/Attachments:

1 OK 31 lines Text

2 Shown 184 lines Text

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Hi Ian,

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Thanks for accepting to give the presentation.

Given that there are lots of details which still have to be worked out on

the RE3/1,4/1 project we would like to give you some directions on the

aspects we would very much like to see addressed in your talk:

-Â Â Â Â Â Â Â  Reminder of RE3/1 and RE4/1 available envelope and proposed deptharts/Attachments:

and eta coverage. Rate and background expectations at large eta.

-Â Â Â Â Â Â Â  Describe potential conflict with other components of CMS

(shielding, alignment, detectors, etc.). Can RE3/1 and 4/1 be fully

integrated with the other RE and CSC detectors in place?

-Â Â Â Â Â Â Â  Heat dissipation, cooling needs and plans for integration with

present cooling system. Is present cooling capacity adequate?

-Â Â Â Â Â Â Â  Routing path from detector out to periphery and back-end

electronics. Location of back-end electronics and rack space requirements.

-Â Â Â Â Â Â Â  Path to USC, plans and space needs inside mini cable chain. Some

pre-installation?

-Â Â Â Â Â Â Â  Logistics for installation of detectors, detector support

mechanics, installation tools, disk infrastructure needs (cable trays, etc.)

-Â Â Â Â Â Â Â  Assuming no LS2 and no LS3. Installation schedule YETS21-22 or YETSÂ Â Â Â Â Â  Describe potential conflict with other components of CMS

22-23. Would it realistically fit in a 15 weeks shutdown? Present an

installation sequence for RE3/1 and RE4/1

-Â Â Â Â Â Â Â  RE3/1 and RE4/1 detector production: Lab space requirements,

logistics, person-power?

-Â Â Â Â Â Â Â  Issues if installation of RE3/1, RE4/1 or both gets postponed to

LS4?

-Â Â Â Â Â Â Â  Other stuff?

This is purely indicative as we understand some of these points are still

far from a full understanding. Nevertheless, we would appreciate any effort

along this direction.

Please, let us know if you would like us to clarify any of the above.

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Thanks!

Best,

Armando, Ignacio