



Construction and Installation schedule

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- Updated construction and installation schedule discussed at the last IB on 7/04/17 wrt LEM/anode production
- Basically finalised to be the reference for PRR end of April







TB meeting 12/04/2017



Detector installation schedule depends directly on the installation sequences in the cryostat:

- CRP
- Field Cage and Cathode
- PMTs

The CRP assembly depends on LEM and anode production strategy (and LAS = LEM + Anode Sandwich assembly)

 The default planning 3 weeks ago was to start full LEM production (160) by 2 firms on April 2017 but this has evolved since the last Collaboration meeting

Main changes are:

- First do a first production of 80 LEM+anode enough to build at least the two first CRP before giving the green light to full production
- The t0 to start the first production has moved by 6 weeks to start middle of May compared to the SPSC report
- New Field Cage assembly procedure in the cryostat to take into account, space, logistics etc....

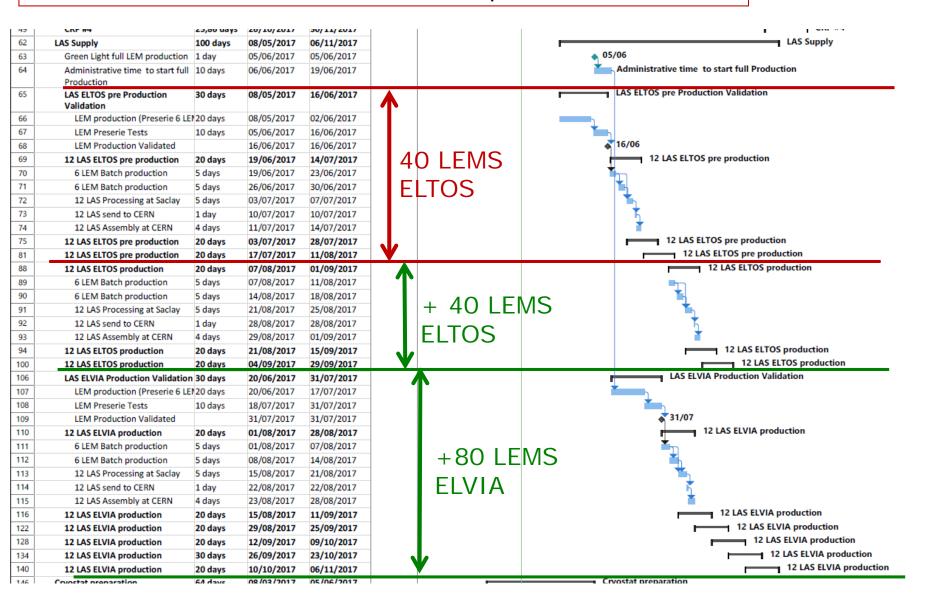
sk name	(days)		/-l-l///
ProtoDUNE-DP	323 days	→ (dd//mm/yy) →	(dd//mm/yy)
	-	09/01/2017	19/04/2018
Cryostat preparation	93 days	08/03/2017	14/07/2017
4 CRP Production & Installation	193 days	10/04/2017	17/01/2018
CR185 material order	1 day	10/04/2017	10/04/2017
Clean Room Material reception	30 days	11/04/2017	22/05/2017
CR185 preparation	6 days	23/05/2017	30/05/2017
CRP assembly in CR185	143 days	31/05/2017	15/12/2017
▶ LAS Supply	136 days	15/05/2017	20/11/2017
CRP installation in the cryostat	77 days	19/09/2017	17/01/2018
Chimneys and feedthroughs	75 days	24/04/2017	04/08/2017
 Drift Cage Production and Installation 	215 days	01/05/2017	02/04/2018
-	5 days	19/02/2018	26/02/2018
Beam plug installation	5 days	19/02/2018	20/02/2018
HV system	10 days	01/02/2018	15/02/2018
PMT and Light Read Out System	307 days	09/01/2017	29/03/2018
Ground grid installation	2 days	29/03/2018	02/04/2018
Front End electonics	90 days	11/09/2017	26/01/2018
Front End electonics	90 days	11/09/2017	20/01/2018
Slow control	30 days	23/10/2017	01/12/2017
Purity monitor ■	30 days	07/03/2018	18/04/2018
Installation	30 days	07/03/2018	18/04/2018
Ready to seal TCO & cryostat	1 day	18/04/2018	19/04/2018
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ProtoDUNE-DP

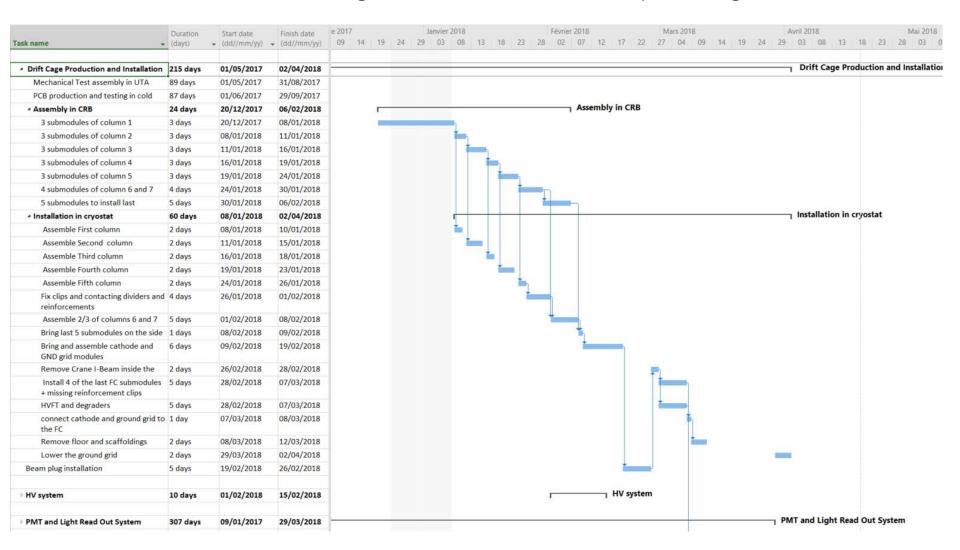
Version 12/04/2017

The end of installation is now moved to April 18, 2018

Scenario from last IB discussion: LAS production schedule



New also is the Field Cage Installation detailed planning



Summary:

Before realeasing the planning:

- Need to cross check with different teams for the different items
 - Cryostat preparation ok
 - ➤ Field Cage ok
 - > CRP ok
 - LEM/Anode to check after the tender finishes on the 14/04
 - Light System (basically ok, in discussion with Inés and colleagues from Spain)
 - > FE electronics and slow control ok
- Provide 1 planning/item to differents speakers for the installation presentations