

## SA2-XTD6 Tech. Commissioning (T-C) status 5.7.2018 KW27

- Target definition:
  - Target-2: Until SDL beam transport pipe mounted, T-C individual HED components , when transport pipe installed there will be a need to define a Target-4 equiv. to Target-3
  - Target-3: XTD1-XTD6-MID all components ready for beam by mid-Sept
- Aimed for loop operation schedule
  - KW28+ Patch HED loop for HED components (+ because we concentrate on Target-3)
- KW27
  - Tunnel closed XTD6 (Mo., Wed, Thu.) limited work done also work in SA3 and SA1.
  - MID\_XTD6\_CRL T-C'ing approximately ½ done, aim to finish Friday
- Criticism
  - Again difficulties due to errors in announced tunnel closed days, **please improve:**
    - **Transparency** – review schedules at this meeting, single source the information, inform all people of changes
    - **Efficiency** – define clear policies, e.g. no afternoon closes for next day test, EuXFEL should close photon tunnels (which means that we have to be in the decision loop)
    - **Enable PSPO** – define a mandate that allows PSPO to do this work
- Outlook (KW28)
  - Unfortunately have to deploy a Karabo fix (K.2.2.4.1) to SA3, SA2 and SA1
  - Continue T-C'ing: MID\_XTD6\_ATT, MID\_XTD6\_PSLIT-1 & -2, SA2\_XTD6\_PBLM-1...
  - XTD1-XTD6-MID vacuum line closed, some leak testing and pump down to be done
    - Vacuum status in next slide

## SA2-XTD6 Vacuum Status 05.07.2018 (from vacuum group, MP, MD...)

**Author:**

If 'Status Vacuum' & 'PLC-Karabo controlled' columns are green all vacuum work finished.

Region	Section No	Between valves	Racks	Components	Status Vacuum	PLC-Karabo controlled	What is missing?
XTD1	VS20010	V20000M-V20020G	2.1	SRA, Fast Valve	pumped and leak tested	YES	---
XTD1	VS20020	V20020G-V20030G	2.1	K-Mono	pumped and leak tested	YES	---
XTD1	VS20030	V20030G-V20190G	2.2	XGM	pumped and leak tested	YES	---
XTD1	VS20040	V20190G-V20200G	2.3	Solid Att	pumped and leak tested	YES	---
XTD1	VS20050	V20200G-V20210G	2.3	CRL	pumped and leak tested	YES	---
XTD1	VS20060	V20210G-V20220G	2.4/2.5	XTD1->XS2	pumped and leak tested	YES	---
XTD1	VS20070	V20220G-V20230G	2.5/2.6	Frontend, XS2->XTD6	pumped and leak tested	YES	---
XTD6	VS20080	V20230G-V20240G	2.6	M1	pumped and leak tested	YES	---
XTD6	VS20090	V20240G-V20250G	2.6/2.7	PBLM/M2	ready for pump-down	YES	Mirror is installed - leak test being made
XTD6	VS20100	V20250G-V20260G	2.7	MCP	ready for pump-down	YES	MCP is installed, is leak tested and pumped - might reopen if M@ leak test fails
XTD6	VS20110	V20260G-V20270G	2.7/2.8	ABS	pumped and leak tested	YES	---
XTD6	VS20120	V20270G-V20280G	2.8/2.9	HIREX	pumped and leak tested	YES	HIREX will be installed later
XTD6	VS20130	V20280G-V20290G	2.9	M3	pumped and leak tested	YES	Mirror, won't be inserted this time - insert mirror needed for beam to HED. Mirror there?
XTD6	VS20140	V20290G-V20300G	2.9	M4	pumped and leak tested	YES	M4 chamber not there yet, comes later
XTD6	VS20150	V20300G-V21010G-V22010G	2.9/2.10	Separation Chamber	pumped and leak tested	YES	---
XTD6-MID	VS21010	V21010G-V21020G	2.10	---	pumped and leak tested	YES	---
XTD6-MID	VS21020	V21020G-V21040G	2.11/2.12	Fast VALVE	pumped and leak tested	YES	---
XTD6-MID	VS21030	V21040G-V21050G	2.12/2.13	---	pumped and leak tested	YES	---
XTD6-MID	VS21040	V21050G-V21060G	2.14/2.15/2.16/2.20	SLIT1 (P-SLIT?)	pumped and leak tested	YES	---
XTD6-MID	VS21050	V21060G-V21070G	2.20/2.21/2.22	ATT/SLIT2/PBLM	pumped and leak tested	YES	---
XTD6-MID	VS21060	V21070G-V21080G	2.22/2.23	SI Mono	pumped and leak tested	YES	---
XTD6-MID	VS21070	V21080G-V21090G	2.23	CRL	pumped and leak tested	YES	---
XTD6-MID	VS21080	V21090G-V21100M	2.23	Frontend	ready for pump-down	YES	bellow downstream of CRL was exchanged, MID adding gauge - pump cart in use stops pump down
XTD6-MID	MID_VAC_OK	V21200M-BlankFlange	2.23	MID	pumped and leak tested	YES	---
XTD6-HED	VS22010	V22010G-V22020G	2.10	---	pumped and leak tested	YES	---
XTD6-HED	VS22020	V22020G-V22040G	2.11/2.12	Fast VALVE	pumped and leak tested	YES	---
XTD6-HED	VS22030	V22040G-V22050G	2.12/2.13/2.14/2.15	---	pumped and leak tested	YES	---
XTD6-HED	VS22040	V22050G-V22060G	2.15/2.16	BLM	pumped and leak tested	YES	---
XTD6-HED	VS22050	V22060G-V22080G	2.16/2.20	SDL	missing vacuum component	YES	SDL-chamber is out for cleaning, vacuum pipes are ordered - no delivery date yet known (KW35?)
XTD6-HED	VS22060	V22080G-V22090G	2.20	MONO	not pumped	YES	---
XTD6-HED	VS22070	V22090G-V22100G	2.20	CRL	pumped and leak tested	YES	---
XTD6-HED	VS22080	V22100G-V22110G	2.20	POP_IN	missing vacuum component	YES	Bellows missing
XTD6-HED	VS22090	V22110G-V22430G	2.19	XGM	pumped and leak tested	YES	XGM and DPS comissioned
XTD6-HED	VS22100	V22430G-V22440M	2.20/2.21/2.23	Frontend	missing vacuum component	YES	6m-pipe is already in tunnel, needs installing
XTD6-HED	HED_VAC_OK	V22440M-BlankFlange	2.23	---	ready for pump-down	YES	---