

European XFEL Schedule and Integration Planning



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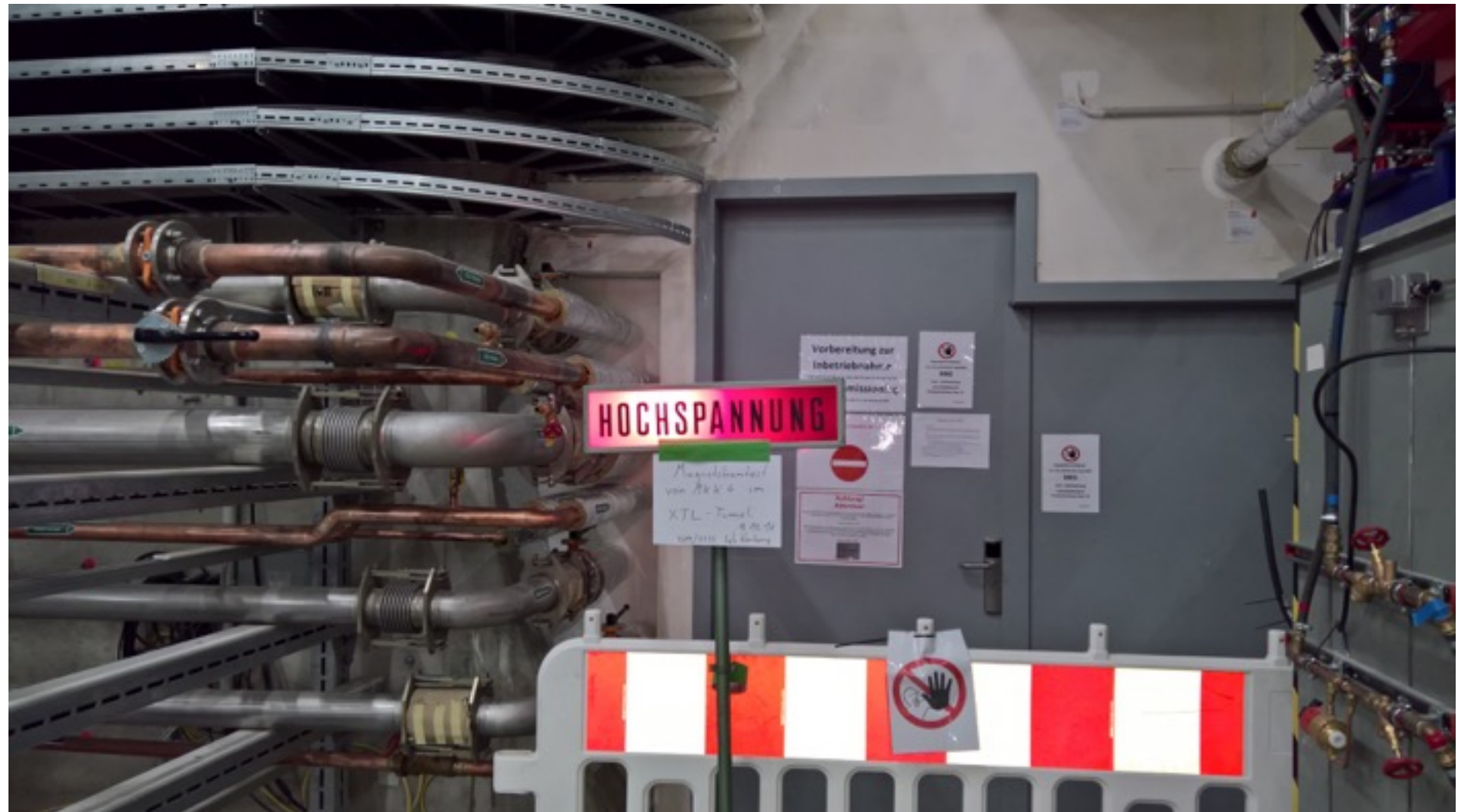
14 December 2016

Top-Level Milestones

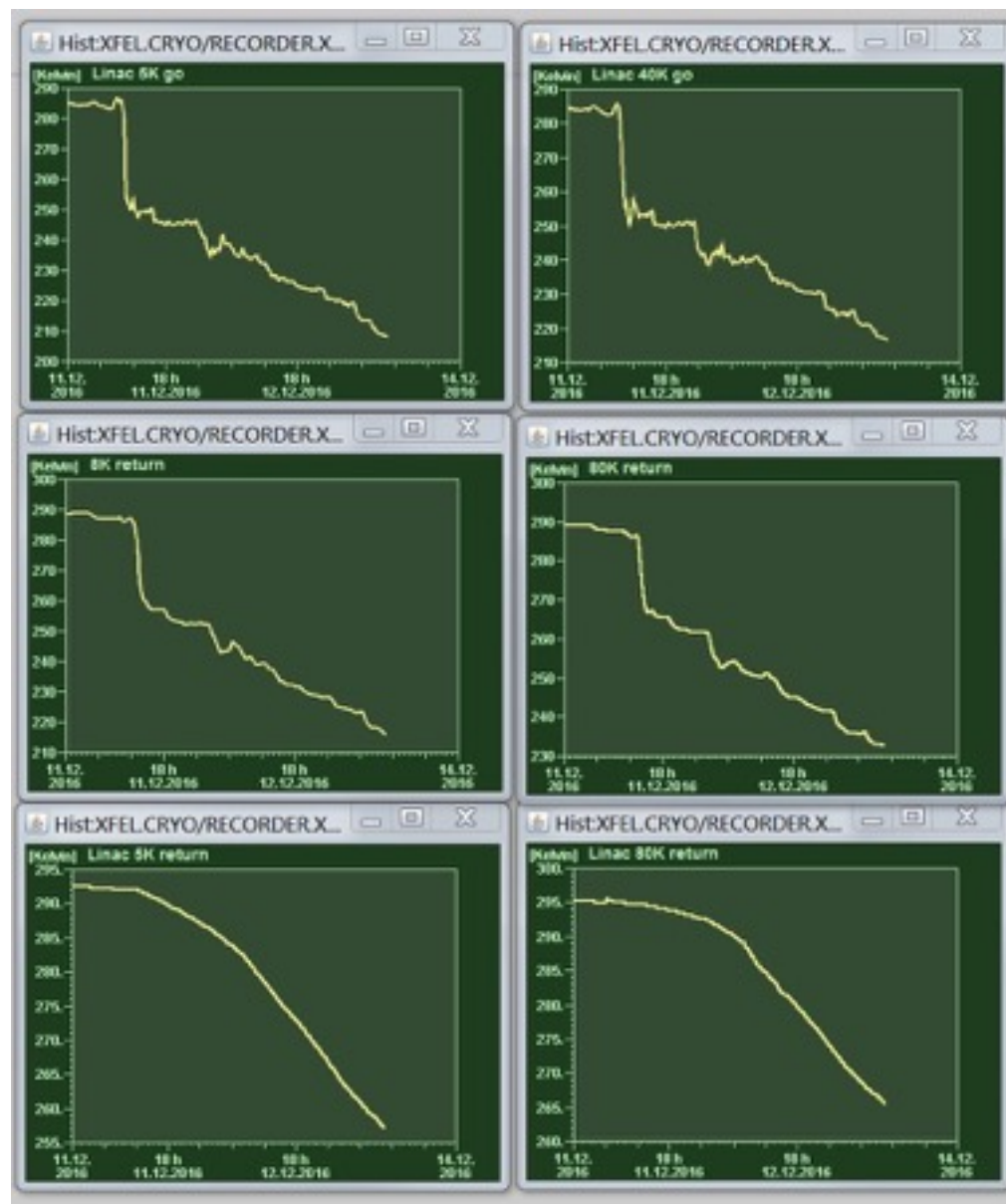
	A	B	C	D	E
1	Milestone Name	Top-level date	Last DAC	Current Date	Slip
2	LINAC				
3	First Beam to Injector Dump	31 August 2015	22 December 2015	22 December 2015	
4	LINAC Tunnel closed	30 June 2016	30 September 2016	06 December 2016	2 mo
5	Start Operation	30 April 2016	30 June 2017	15 August 2017	1.5 mo
6	Extended Beam Delivery	30 June 2018	31 October 2018	31 October 2018	2 mo
7	SASE1				
8	XTD2, XTD9 ready to be closed	31 December 2015	30 June 2016	28 February 2017	8 mo
9	First Lasing SASE1 possible	31 December 2016	31 March 2017	31 May 2017	2 mo
10	SASE1 Instruments User Operation	30 April 2017	30 June 2017	01 September 2017	2 mo
11	SASE3				
12	XTD4, XTD10 ready to be closed	31 December 2015	30 June 2016	30 April 2017	10 mo
13	First Lasing SASE3 possible	15 February 2016	15 May 2017	30 June 2017	1.5 mo
14	SASE3 Instruments User Operation	31 May 2017	31 July 2017	31 January 2018	6 mo
15	SASE2				
16	XTD1, XTD3, XTD5, XTD6, XTD7, XTD8 ready to be closed	15 December 2016	31 March 2017	30 June 2017	3.5 mo
17	First Lasing SASE2 possible	15 April 2017	15 July 2017	31 October 2017	3.5 mo
18	SASE2 Instruments User Operation	31 July 2017	31 October 2017	30 June 2018	8 mo
19					

Slips of 2/6/8 months in SASE1/3/2

LINAC Tunnel Closed for Cooldown



LINAC Cooldown



SASE1: FXE starts vacuum pumping



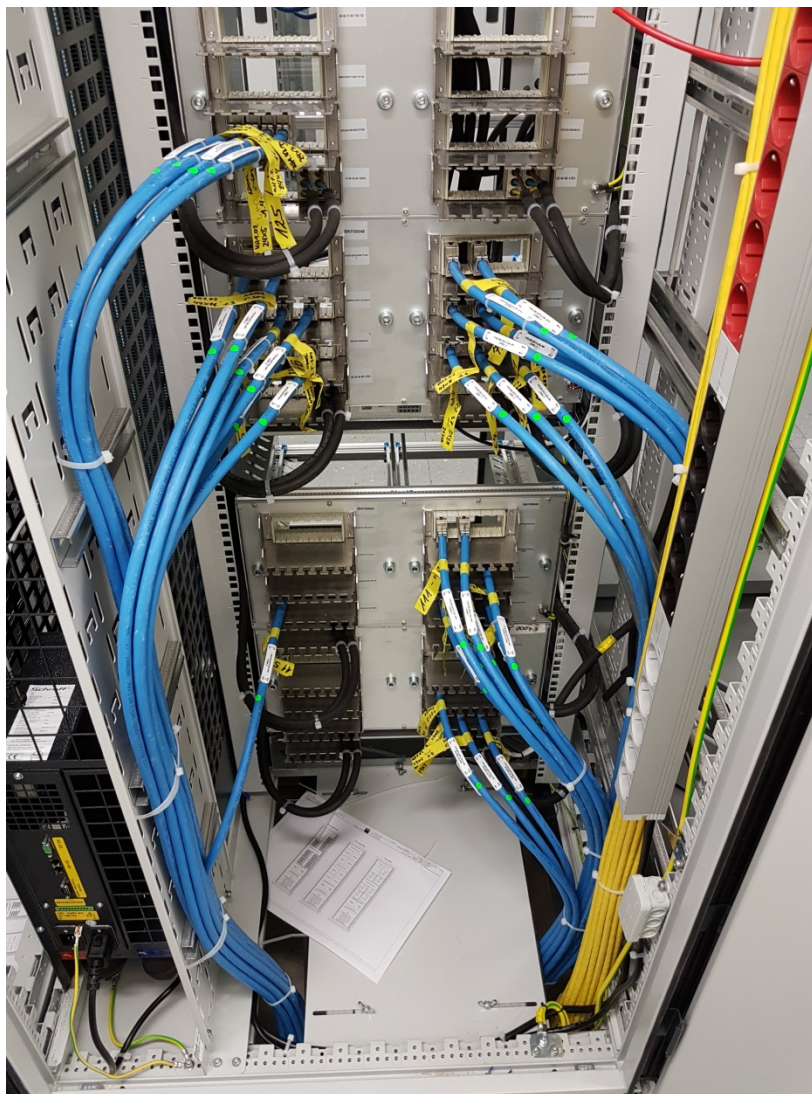
SASE1: SPB Hutch



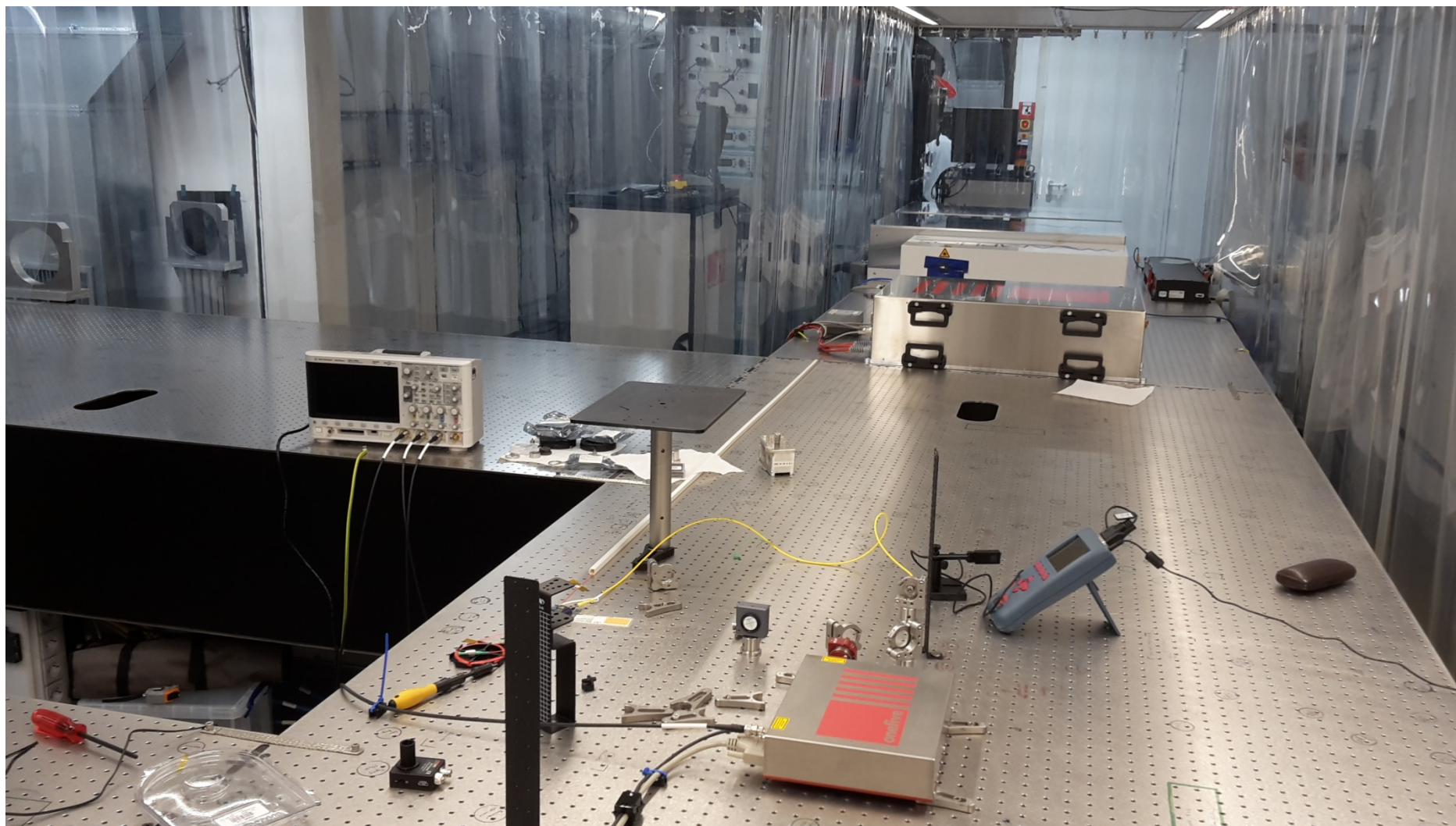
Arrival of racks for SASE1



Racks and Motor Cables for FXE



SASE1: Ongoing PP Laser installations



Status SASE1

Infrastructure

 Mostly running and being tuned

IT Cables and Racks

 Installed and tested, small amount of rework required

Phase II Cables and electronics

 Motor cables for FXE are installed. Cabling continues in January

 Electronics installations about to start

FXE Installation well advanced

SPB Installation about to start

Laser installations started

SCS: Hutch and first technical installations



SQS: Hutch and first technical installations




SCS Control Room




SASE3 Status

 Civil construction

 Still ongoing

 Infrastructure

 Major problems and delays with AC contractor

▶ Delay of > 6 mo

 IT Cabling and Racks:

 Contracted, installation starts in February

 Phase 2 Cabling and electronics:

 Internal planning still ongoing

 Progress currently limited by internal resources

SASE2 Civil Construction



SASE2: Doors MID Hutch



SASE2: AC installations Laser room



SASE2 Status

Civil Construction

 Civil construction almost complete

 Work on the ceiling of High Power laser room suspended might be a bit delayed

 Detailed layout of laser still under discussion

Infrastructure

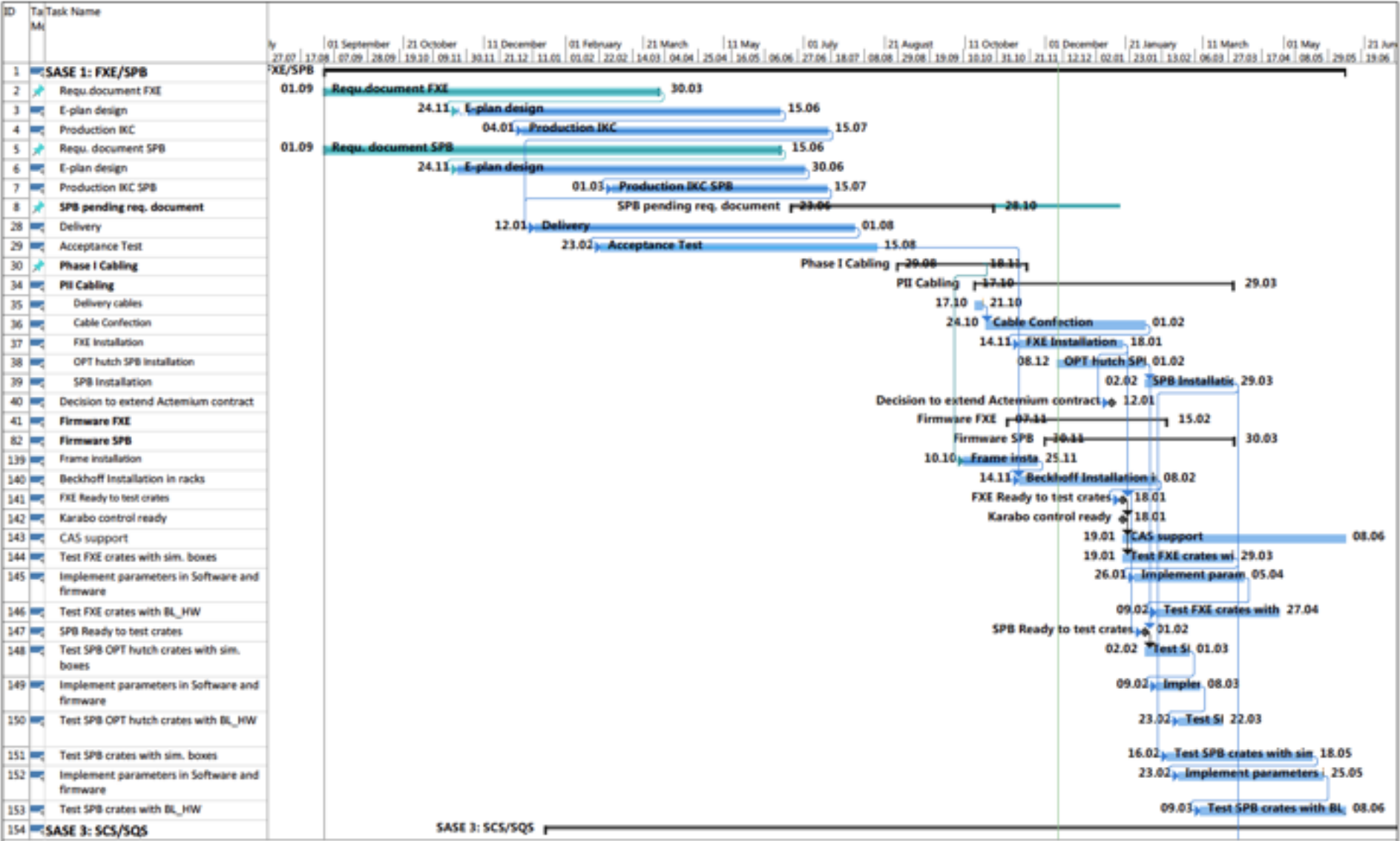
 Installation has started and is on track

IT Cabling and Racks

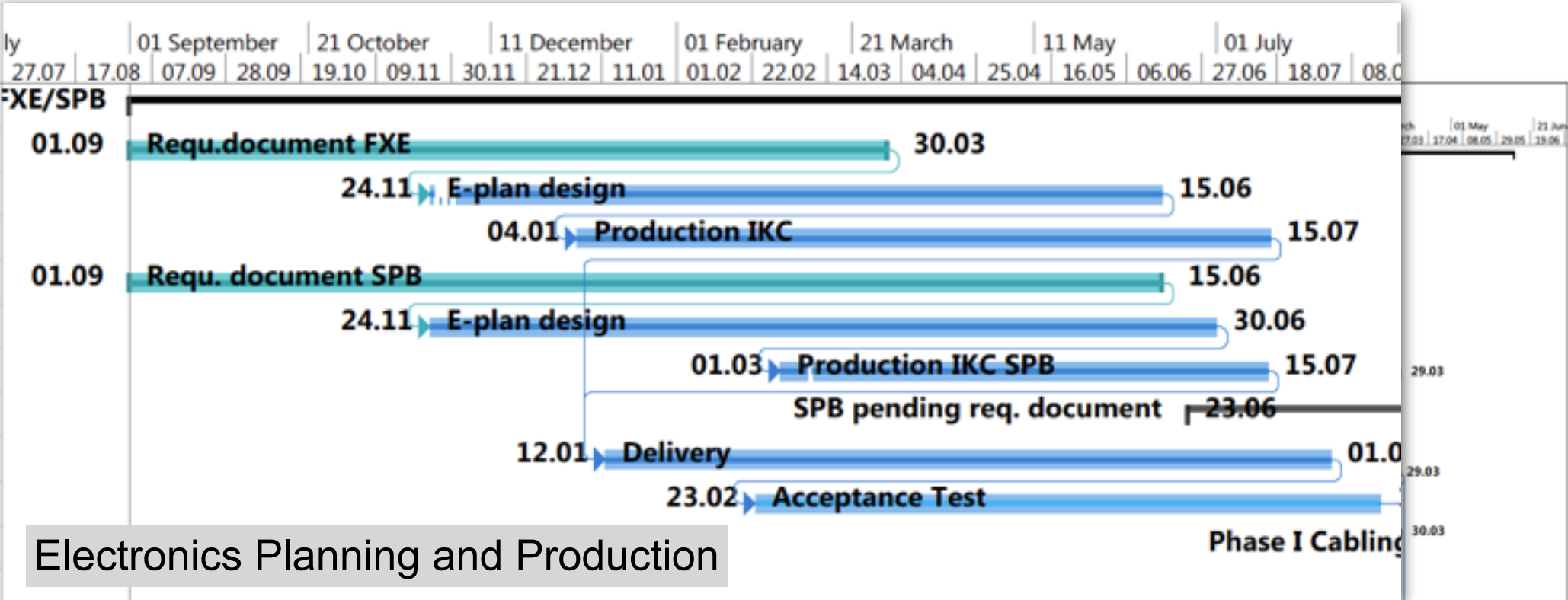
 Tender will go out in January

Phase2 Cabling will depend on progress of internal planning

SASE1: Electronics, Cabling and Technical Commissioning



SASE1: Elec



Electronics Planning and Production

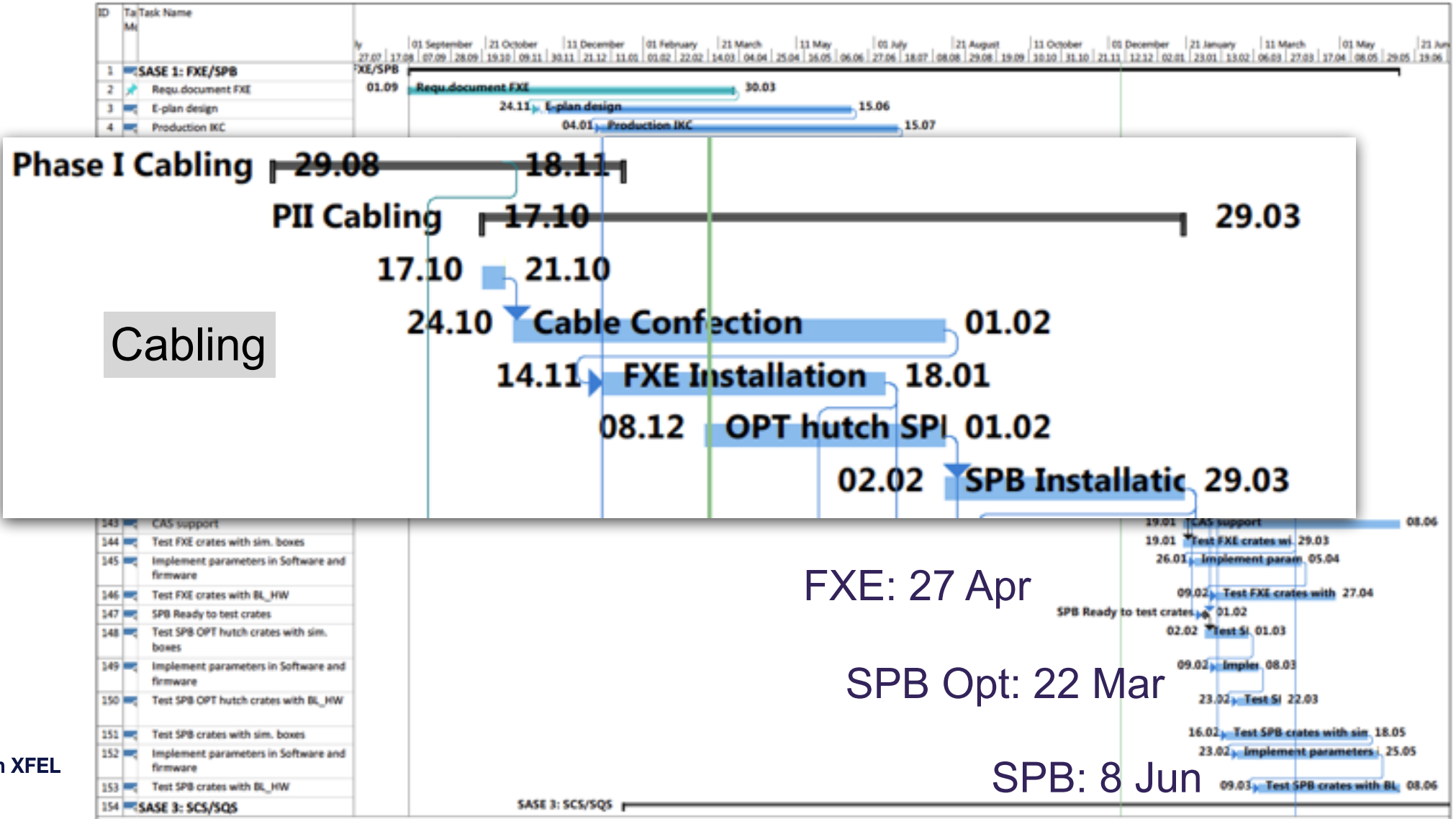


FXE: 27 Apr

SPB Opt: 22 Mar

SPB: 8 Jun

SASE1: Electronics, Cabling and Technical Commissioning



Cabling

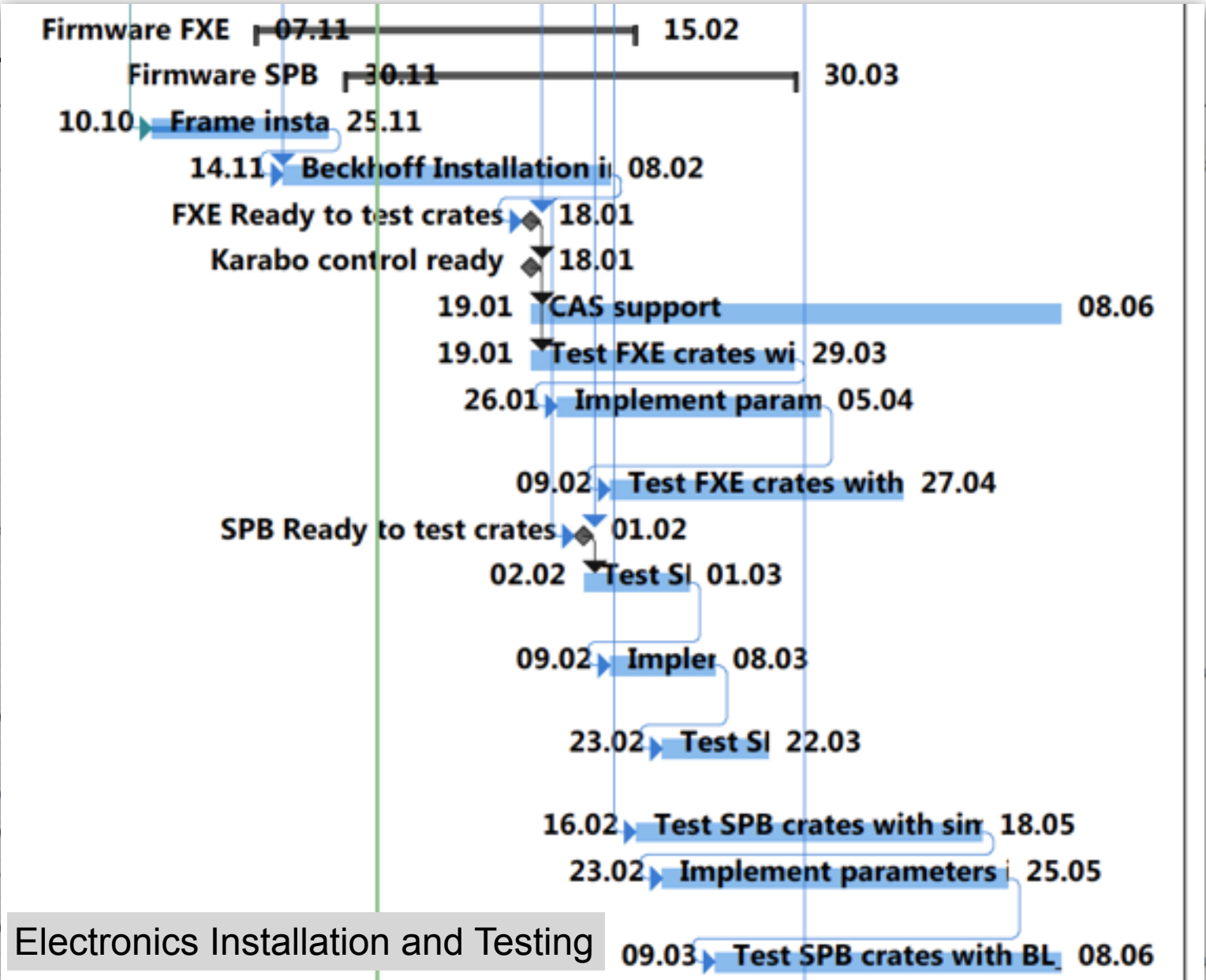
FXE: 27 Apr

SPB Opt: 22 Mar

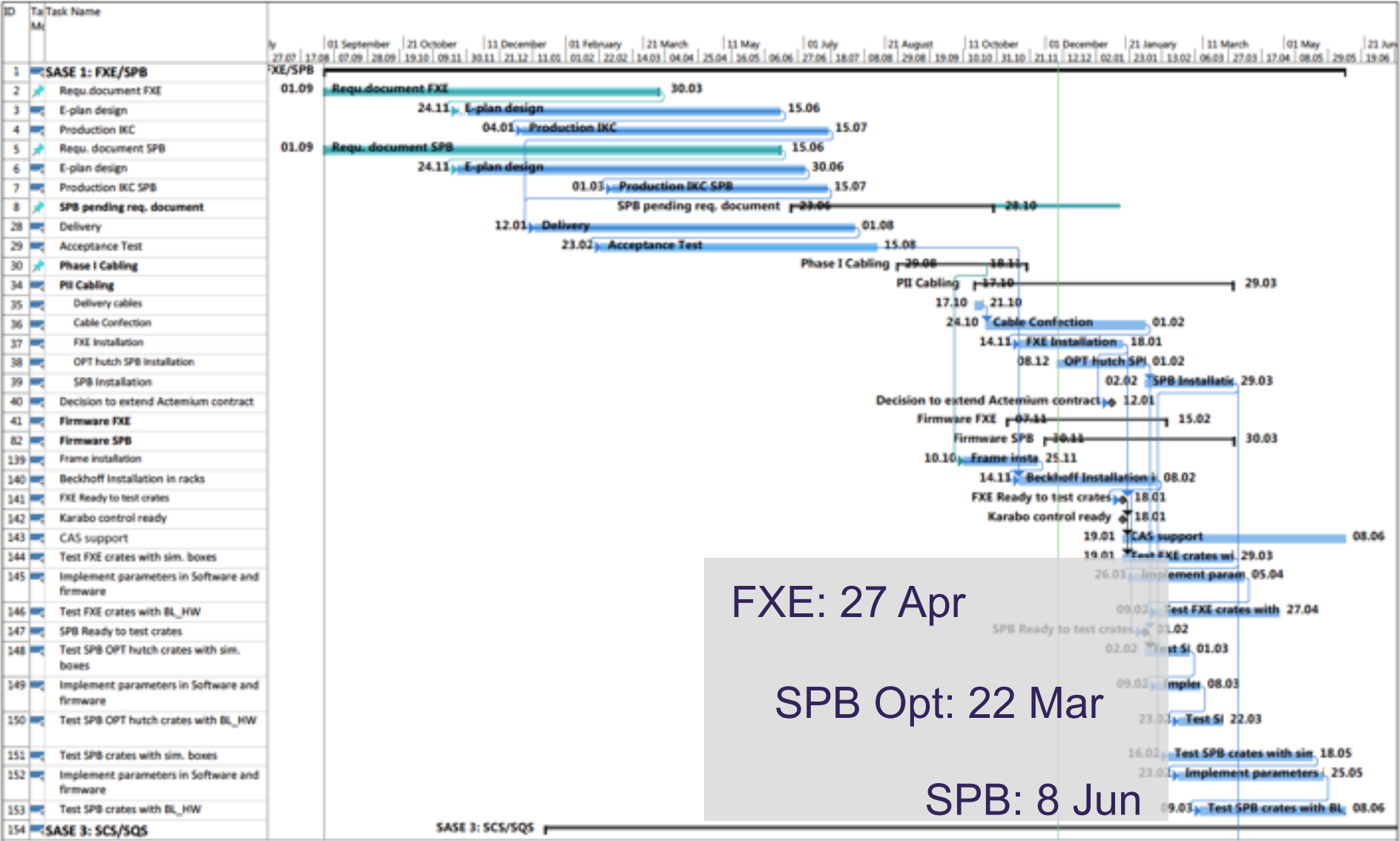
SPB: 8 Jun

SASE1: Electronics and Cabling

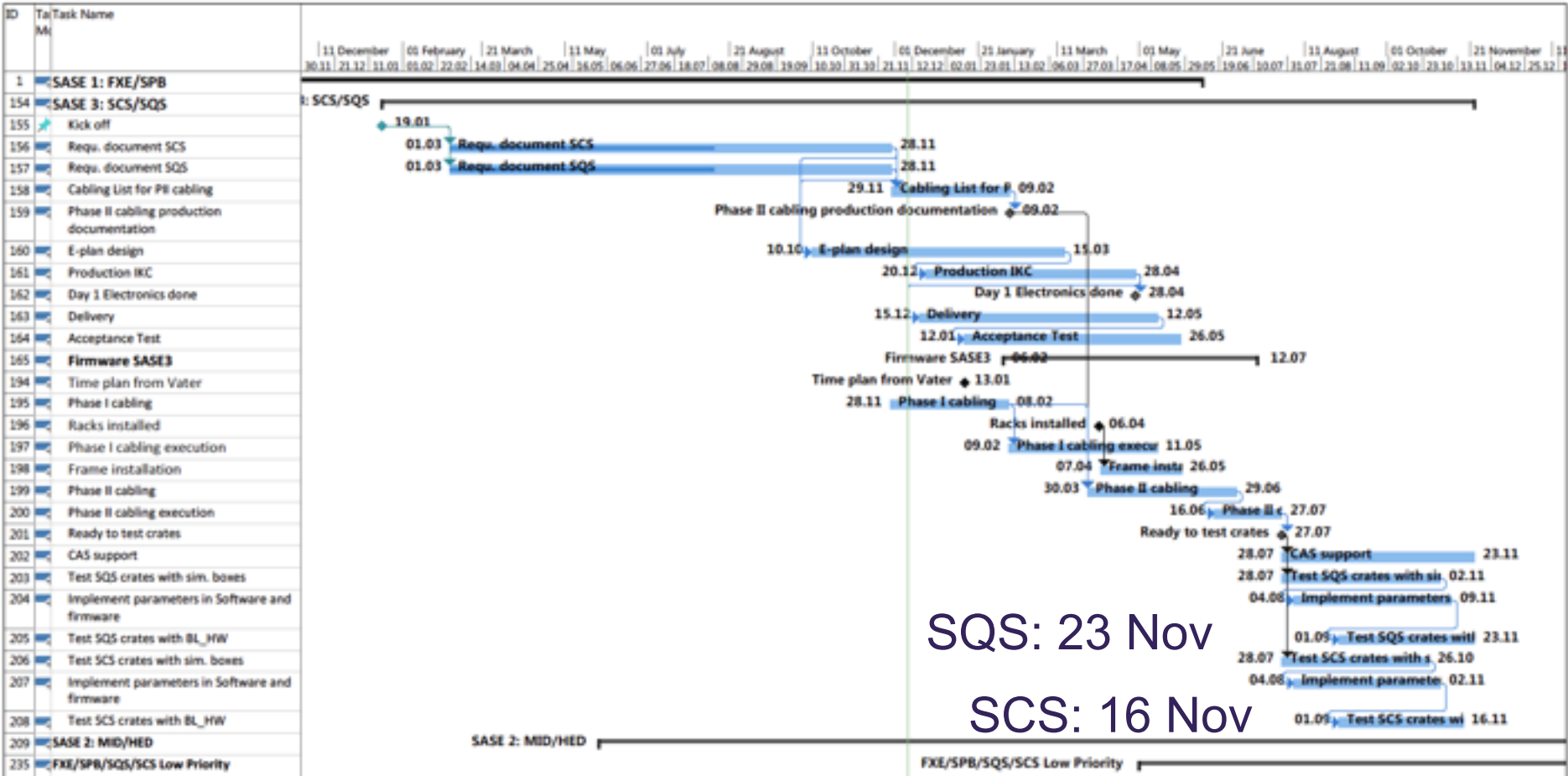
ID	Task Name
1	SASE 1: FXE/SPB
2	Requ. document FXE
3	E-plan design
4	Production IKC
5	Requ. document SPB
6	E-plan design
7	Production IKC SPB
8	SPB pending req. document
28	Delivery
29	Acceptance Test
30	Phase I Cabling
34	PII Cabling
35	Delivery cables
36	Cable Confection
37	FXE Installation
38	OPT hutch SPB Installation
39	SPB Installation
40	Decision to extend Actemium cont
41	Firmware FXE
82	Firmware SPB
139	Frame Installation
140	Beckhoff Installation in racks
141	FXE Ready to test crates
142	Karabo control ready
143	CAS support
144	Test FXE crates with sim. boxes
145	Implement parameters in Software firmware
146	Test FXE crates with BL_HW
147	SPB Ready to test crates
148	Test SPB OPT hutch crates with sim boxes
149	Implement parameters in Software firmware
150	Test SPB OPT hutch crates with BL
151	Test SPB crates with sim. boxes
152	Implement parameters in Software firmware
153	Test SPB crates with BL_HW
154	SASE 3: SCS/SQS



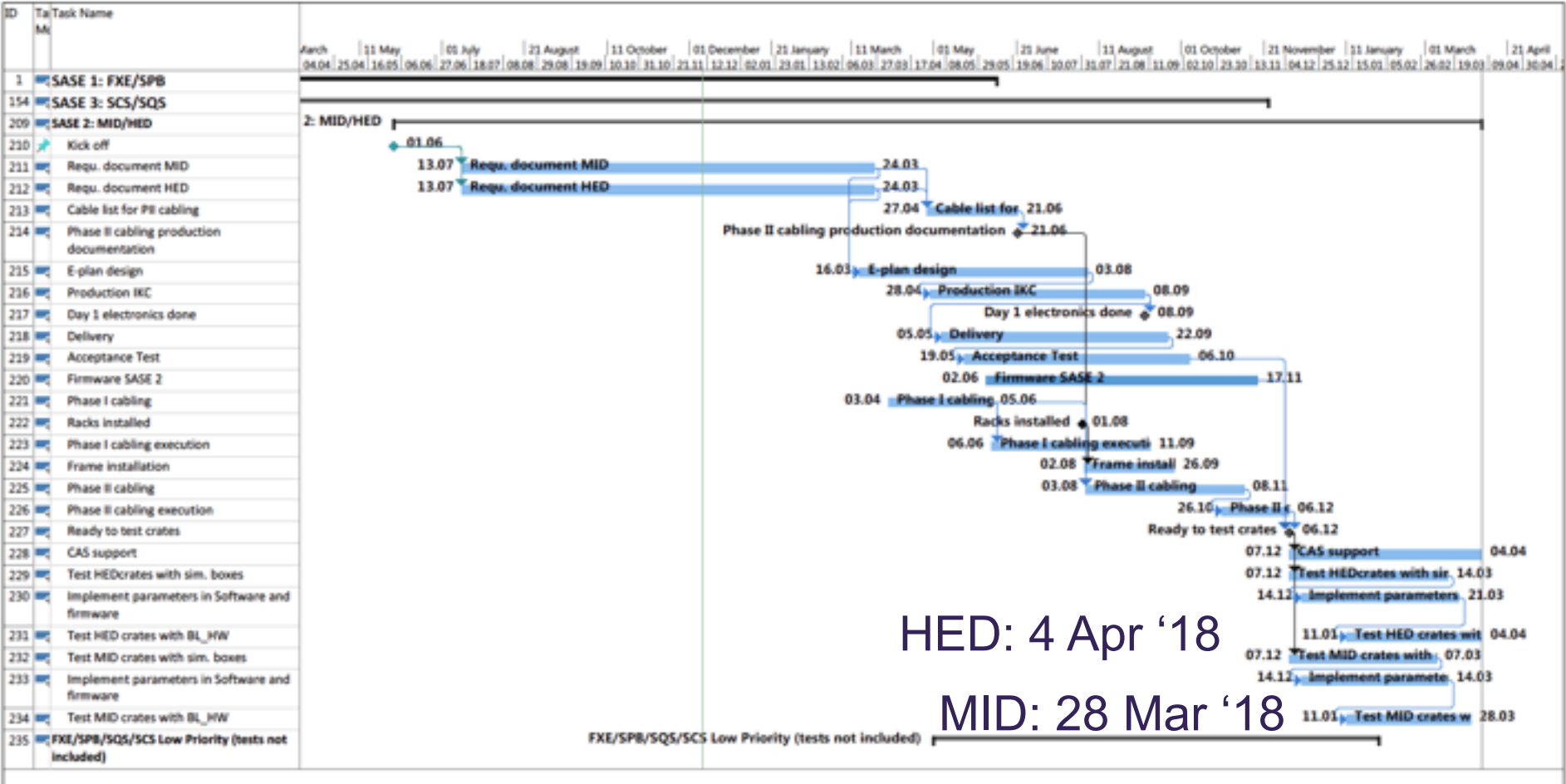
SASE1: Electronics, Cabling and Technical Comissioning



SASE3: Electronics, Cabling and Technical Comissioning



SASE2: Electronics, Cabling and Technical Comissioning



HED: 4 Apr '18

MID: 28 Mar '18

PSPO Team

