

European XFEL Schedule and Integration Planning

Tobias Haas
Photon System Coordinator
23 May 2016

Top-Level Milestones

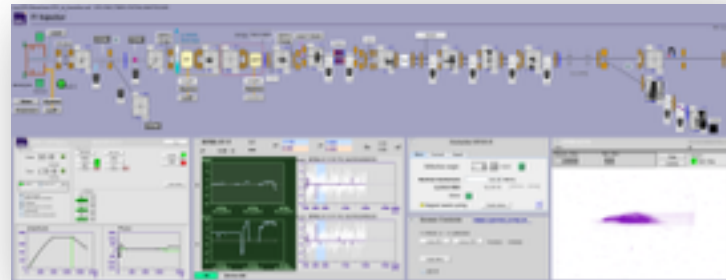
	A	B	C
	Milestone Name	Top-level date	Likely Date
2	LINAC		
3	First Beam to Injector Dump	31 August 2015	22 December 2015
4	LINAC Tunnel closed	30 June 2016	30 September 2016
5	Start Operation	30 April 2016	30 June 2017
6	Extended Beam Delivery	30 June 2018	31 October 2018
7	SASE1		
8	XTD2, XTD4, XTD9,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

Likely date are about 3 months behind target

First Beam to Injector Dump

3

- December 18, A1 is operational, electron beam with 130 MeV in the dump.



- December 21, first emittance measurements.



Installation Progress XTL

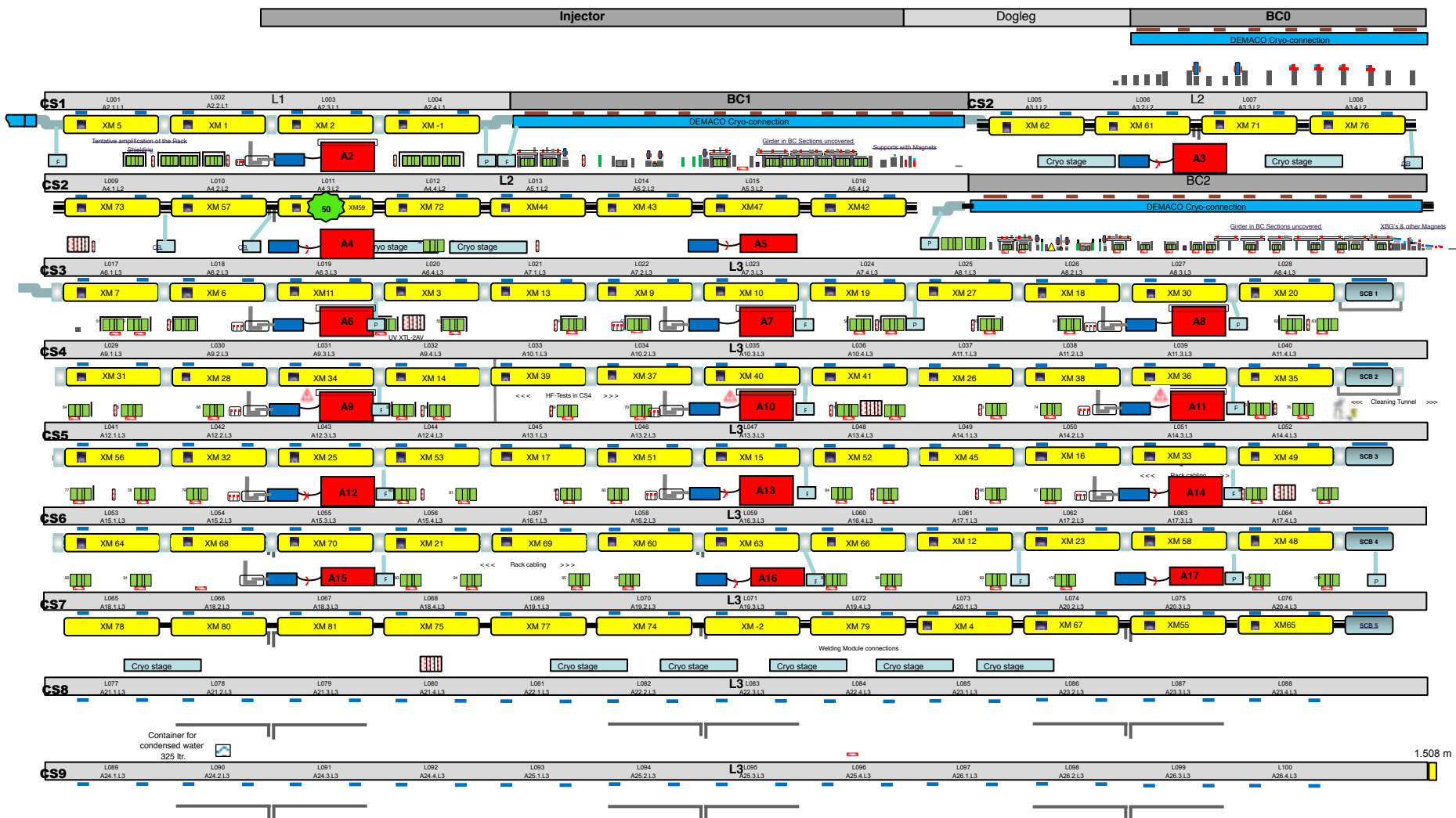
Please use Hyperlink to view pictures

76 Modules installed

1 RF-Station ready
15 RF-Station in preparation

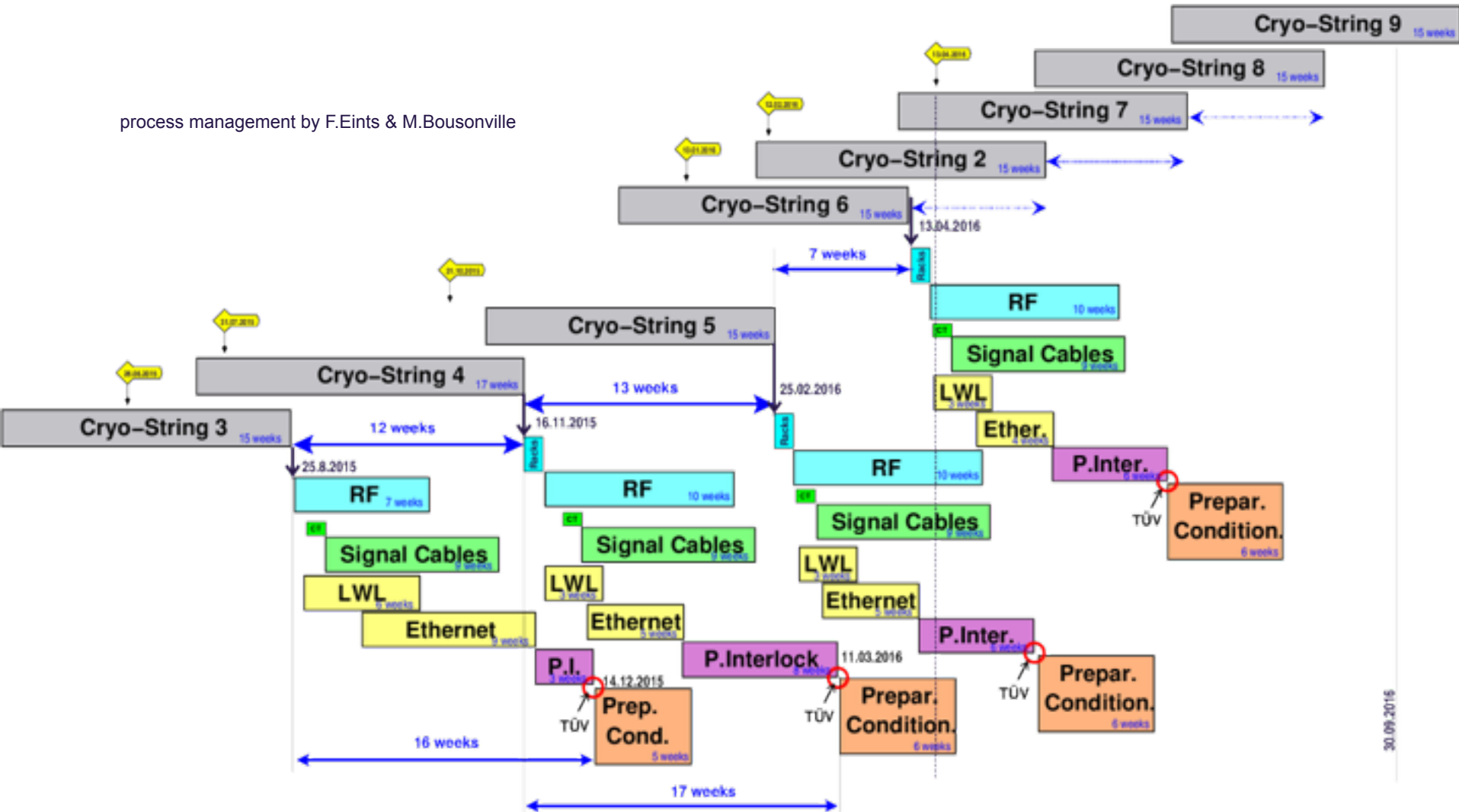
Status: 22.04.2016

3

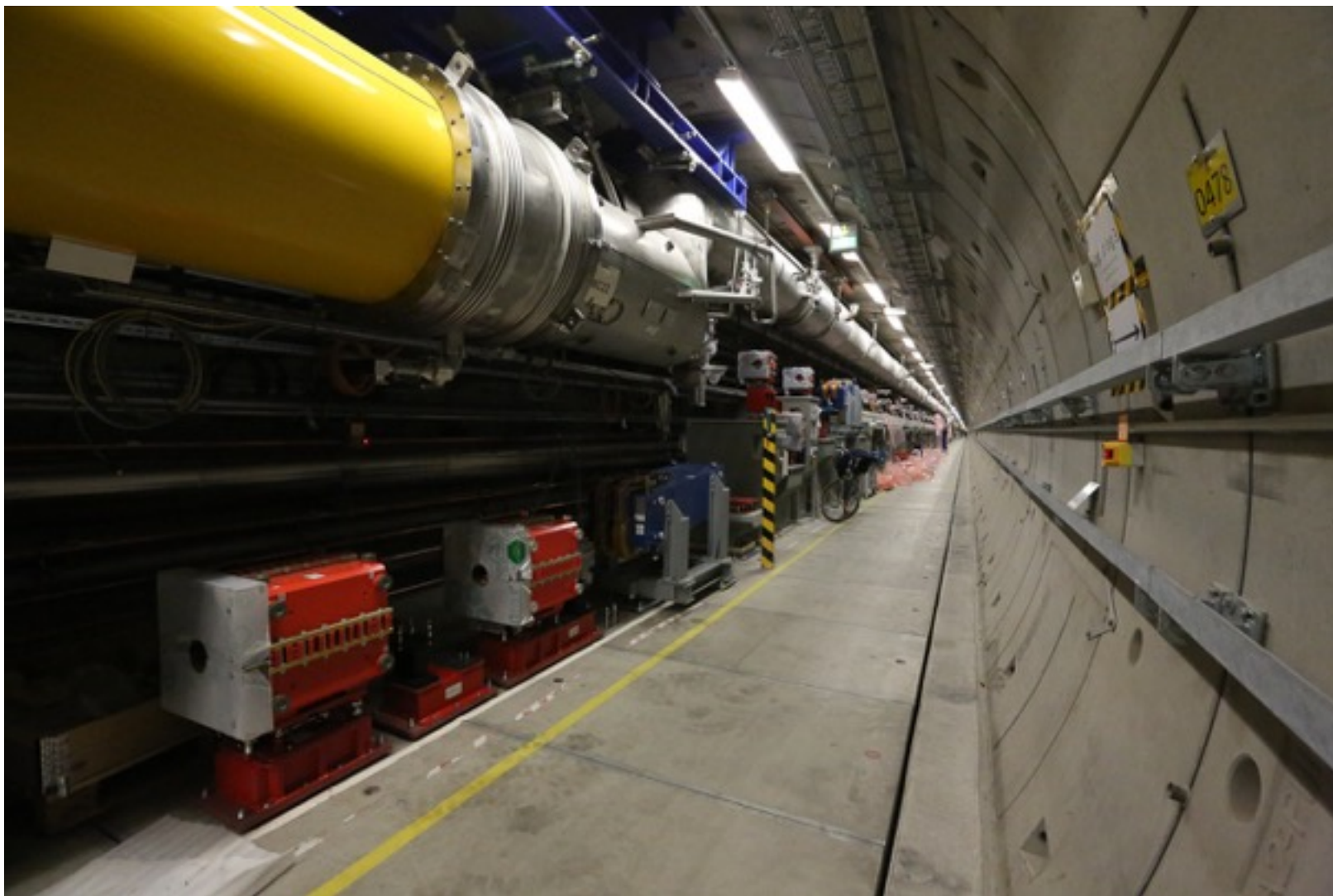


Installation Steps for Cold Linac

process management by F.Eints & M.Bousonville



Bunch Compressor 2 and LINAC 2



Warm Beamline at the end of the LINAC

7



Dump XS1



Warm Beamline in XTD2



SASE1 Undulators



Photon Beam Line in XTD2



SPB and FXE Beam Lines at the end of XTD9



XTD4 with SASE3 Undulator Beam Line



XTD10 with Photon Beam Line Supports



XHEXP1 - SASE1



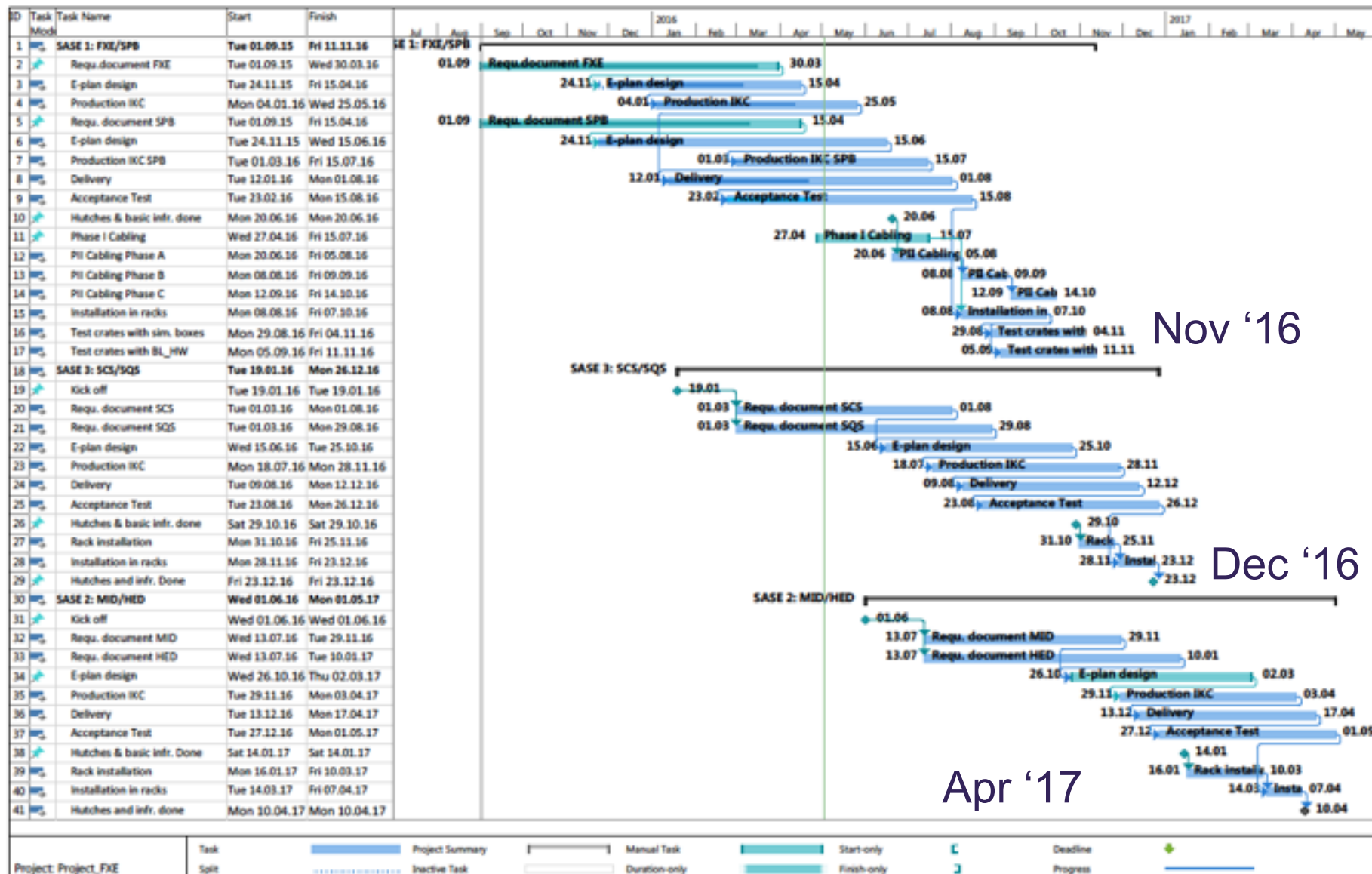
XHEXP1 - SASE3



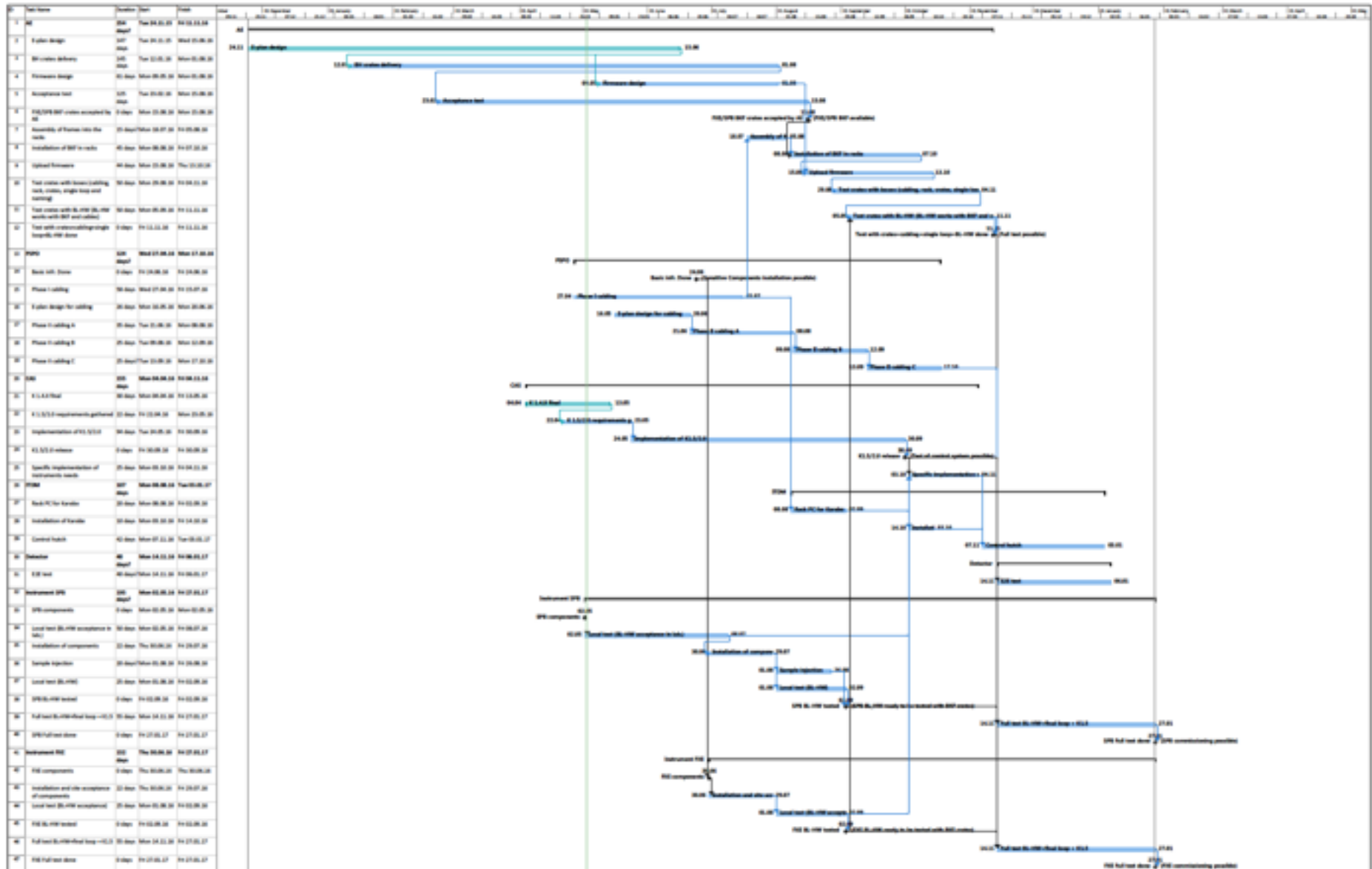
XHEXP1 - SASE2



Electronic Crate Production



Technical Commissioning



SASE1 Testing and Commissioning Milestones

SASE1			
Milestone	Responsible	Tentative Date	Comment
FXE/SPB BKF crates accepted by AE	AE	15 Aug	SXE/SPB BKF available
FXE/SPB BKF crates test with cables and simulator boxes	AE	4 Nov	
SPB BL-HW tested	SPB	2 Sep	SPB BL-HW ready to be tested with BKF crates
FXE BL-HW tested	FXE	2 Sep	FXE BL-HW ready to be tested with BKF crates
Test with crates+cabling+single loop+BL-HW done	AE	11 Nov	Full test possible
SPB full test done	SPB	27 Jan 17	Full commissioning possible
FXE full test done	FXE	27 Jan 17	Full commissioning possible
Karabo 2.0 released	CAS	30 Sep	

Detector Milestones

	A	B	C
1	Milestone Name	Date	Note
2	SASE1		
3	PHASE 1 Cabling Done	16/06/16	
4	PHASE 2 Cabling Done	13/07/16	
5	SPB ready for Detector	01/11/16	
6	FXE ready for Detector	05/09/16	
7			
8			
9			
10			
11	SASE3		
12	PHASE 1 Cabling Done	27/09/16	
13	PHASE 2 Cabling Done	20/10/16	
14	SCS Ready for Detector	07/03/17	
15	SQS Ready for Detector	17/08/17	
16			
17			
18	SASE2		
19	PHASE 1 Cabling Done	03/03/17	
20	PHASE 2 Cabling Done	31/03/17	
21	MID Ready for Detector	May 17	19/05/17
22	HED Ready for Detector	April 17	14/04/17
23			
24			

SASE1 Hutch Fest



PSPO Team



SASE1 Testing and Commissioning Milestones

SASE1			
Milestone	Responsible	Tentative Date	Comment
FXE/SPB BKF crates accepted by AE	AE	15 Aug	SXE/SPB BKF available
FXE/SPB BKF crates test with cables and simulator boxes	AE	4 Nov	
SPB BL-HW tested	SPB	2 Sep	SPB BL-HW ready to be tested with BKF crates
FXE BL-HW tested	FXE	2 Sep	FXE BL-HW ready to be tested with BKF crates
Test with crates+cabling+single loop+BL-HW done	AE	11 Nov	Full test possible
SPB full test done	SPB	27 Jan 17	Full commissioning possible
FXE full test done	FXE	27 Jan 17	Full commissioning possible
Karabo 2.0 released	CAS	30 Sep	