

Master Schedule

& Planning in the coming weeks

Crab Cavities Technical Coordination
Meeting #XXIII

[INDICO: 625896](#)

[EDMS: 17474666](#)

[WP4-SHAREPOINT](#)

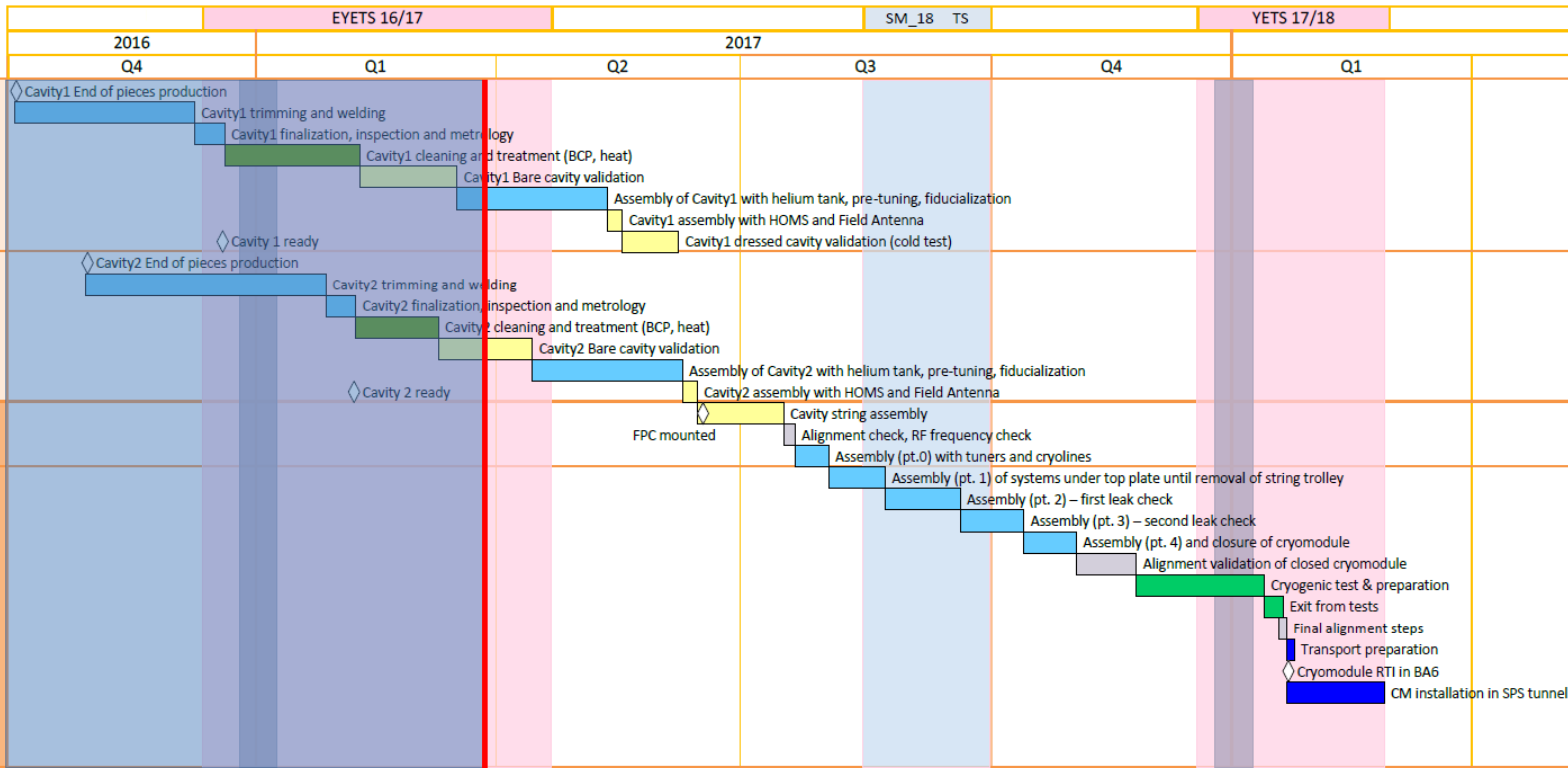
By Aurelio Berjillos

27/03/2017

Master Schedule revXXII

EDMS 1747466

Version: XXII
 Updated on: 24/03/2017
 A. Berjillos



CM delivered in BA6 on **22nd Jan'18**

Previous version was on 2nd Feb

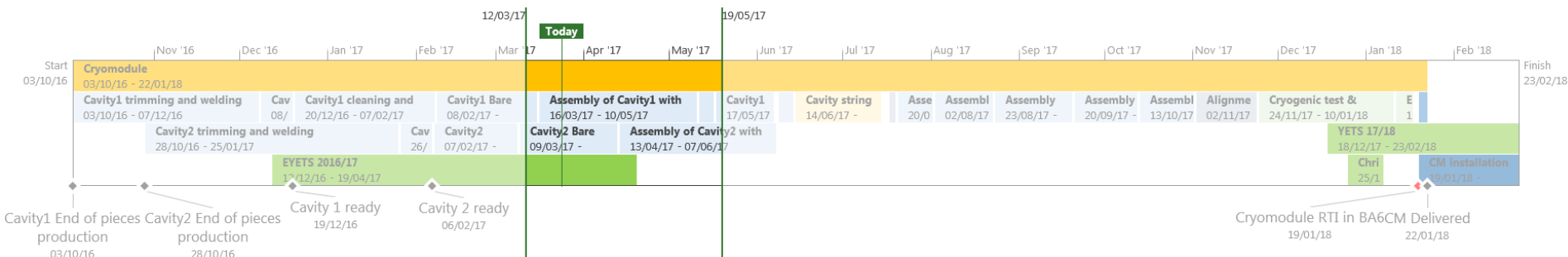
A. Berjillos EN-ACE-OSS



Changes from the previous version:

- Renaming of tasks in the main blocks “Assembly of C1/2 with helium tank, pre-tuning, fiducialization” (UI: 41,120)
- Added one constraint in C2: Welding of helium tank (UI: 251)
- Added “Pressure” in the task: Leak test (UI: 261,321,372)
- Deleted the task: HPWR in both cavities (UI: 206,255)
- Modified the duration of: Assembly of cavity with HOMs & F. Antenna (UI:205,256). 3 days/cavity
- Modified the duration of: Mount FPCs (UI:324) 3 days instead of 2
- Updated the name of HOMs & Field Antenna in the MS according to E. Montesinos

Planning from wk. 11 to 19



274	▾ Cavity 1	167 days	03/10/16	06/06/17	
33	▾ Cavity1 Bare cavity validation	26 days	08/02/17	15/03/17	Alick (BE-RF)
186	Warmup	5 days	07/03/17	13/03/17	Alick
185	Removal of test antenna and preparation for transport	1 day	14/03/17	14/03/17	Alick
133	Transport activity	1 day	15/03/17	15/03/17	
41	▾ Assembly of Cavity1 with helium tank, pre-tuning, fiducialization	38 days	16/03/17	10/05/17	Marco (EN-MME)
320	Alternative tuning, RF frequency	1 day	16/03/17	16/03/17	Rama
199	Metrology of cavity	1 day	17/03/17	17/03/17	Marco
200	Preparation and machining adaptation parts	7 days	20/03/17	28/03/17	Marco
201	Assembly of cavity with tank and magnetic shield	4 days	29/03/17	03/04/17	Marco
202	RF frequency	0 days	03/04/17	03/04/17	Rama
203	Welding of helium tank	20 days	04/04/17	03/05/17	Marco
196	Coarse tuning, RF frequency	1 day	04/05/17	04/05/17	Rama
197	Metrology and tank fiducialisation	1 day	05/05/17	05/05/17	Marco, Mateusz
393	Leak test	2 days	08/05/17	09/05/17	Marco
134	Transport activity	1 day	10/05/17	10/05/17	
48	▸ Cavity1 assembly with HOMS and Field Antenna	4 days	11/05/17	16/05/17	Alick (BE-RF)

TODAY

Planning from wk. 11 to 19

275	▸ Cavity 2	152 days	28/10/16	13/06/17	
119	▸ Cavity2 Bare cavity validation	25 days	09/03/17	12/04/17	Alick (BE-RF)
238	HP Water Rinsing	3 days	09/03/17	13/03/17	Alick
239	Assembly bare cavity	1 day	14/03/17	14/03/17	Alick
377	Leak test	1 day	15/03/17	15/03/17	Alick
240	Transfer cavity to insert	1 day	16/03/17	16/03/17	Alick
241	Evacuation & Bakeout	3 days	17/03/17	21/03/17	Alick
242	Cold RF test	10 days	22/03/17	04/04/17	Alick
243	Warmup	4 days	05/04/17	10/04/17	Alick
244	Removal of test antenna and preparation for transport	1 day	11/04/17	11/04/17	Alick
246	Transport activity	1 day	12/04/17	12/04/17	
120	▸ Assembly of Cavity2 with helium tank, pre-tuning, fiducialization	38 days	13/04/17	07/06/17	Marco (EN-MME)
347	Alternative tuning, RF frequency	1 day	13/04/17	13/04/17	Rama
247	Metrology of cavity	1 day	18/04/17	18/04/17	Marco
248	Preparation and machining adaptation parts	7 days	19/04/17	27/04/17	Marco
249	Assembly of cavity with tank and magnetic shield	4 days	28/04/17	03/05/17	Marco
250	RF frequency	0 days	03/05/17	03/05/17	Rama
251	Welding of helium tank	20 days	04/05/17	31/05/17	Marco

TODAY

Questions?

Uniq ID	Task Name	Duration	Start	Finish	Resource Names
273	Cryomodule	320 days	03/10/16	22/01/18	
274	Cavity 1	167 days	03/10/16	06/06/17	
1	Cavity1 End of pieces production	0 days	03/10/16	03/10/16	Marco (EN-MME)
3	Cavity1 trimming and welding	48 days	03/10/16	07/12/16	Marco (EN-MME)
18	Cavity1 finalization, inspection and metrology	8 days	08/12/16	19/12/16	Marco (EN-MME)
24	Cavity1 cleaning and treatment (BCP, heat)	28 days	20/12/16	07/02/17	Leonel (TE-VSC)
33	Cavity1 Bare cavity validation	26 days	08/02/17	15/03/17	Alick (BE-RF)
41	Assembly of Cavity1 with helium tank, pre-tuning, fiducialization	38 days	16/03/17	10/05/17	Marco (EN-MME)
48	Cavity1 assembly with HOMS and Field Antenna	4 days	11/05/17	16/05/17	Alick (BE-RF)
51	Cavity1 dressed cavity validation (cold test)	15 days	17/05/17	06/06/17	Alick (BE-RF)
286	Cavity 1 ready	0 days	19/12/16	19/12/16	
275	Cavity 2	152 days	28/10/16	13/06/17	
115	Cavity2 End of pieces production	0 days	28/10/16	28/10/16	Marco (EN-MME)
116	Cavity2 trimming and welding	55 days	28/10/16	25/01/17	Marco (EN-MME)
117	Cavity2 finalization, inspection and metrology	8 days	26/01/17	06/02/17	Marco (EN-MME)
118	Cavity2 cleaning and treatment (BCP, heat)	22 days	07/02/17	08/03/17	Marco (EN-MME)
119	Cavity2 Bare cavity validation	25 days	09/03/17	12/04/17	Alick (BE-RF)
120	Assembly of Cavity2 with helium tank, pre-tuning, fiducialization	38 days	13/04/17	07/06/17	Marco (EN-MME)
121	Cavity2 assembly with HOMS and Field Antenna	4 days	08/06/17	13/06/17	Alick (BE-RF)
284	Cavity 2 ready	0 days	06/02/17	06/02/17	
52	Cavity string assembly	23 days	14/06/17	14/07/17	Mathieu (BE-RF)
392	FPC mounted	0 days	15/06/17	15/06/17	
62	Alignment check, RF frequency check	3 days	17/07/17	19/07/17	Mateusz (EN-ACE)
362	Cryostating	74 days	20/07/17	01/11/17	
64	Assembly (pt.0) with tuners and cryolines	9 days	20/07/17	01/08/17	Marco (EN-MME)
68	Assembly (pt. 1) of systems under top plate until removal of string trolley	15 days	02/08/17	22/08/17	Marco (EN-MME)
78	Assembly (pt. 2) – first leak check	19 days	23/08/17	19/09/17	Marco (EN-MME)
84	Assembly (pt. 3) – second leak check	17 days	20/09/17	12/10/17	Marco (EN-MME)
92	Assembly (pt. 4) and closure of cryomodule	14 days	13/10/17	01/11/17	Marco (EN-MME)
101	Alignment validation of closed cryomodule	16 days	02/11/17	23/11/17	Mateusz (EN-ACE)
293	Cryogenic test & preparation	24 days	24/11/17	10/01/18	Kzstof (TE-CRG)
309	Exit from tests	5 days	11/01/18	17/01/18	Kzstof (TE-CRG)
355	Final alignment steps	1 day	17/01/18	18/01/18	Mateusz (EN-ACE)
111	Transport preparation	2 days	19/01/18	22/01/18	Giovanna (BE-RF)
361	CM Delivered	0 days	22/01/18	22/01/18	
316	Cryomodule RTI in BA6	0 days	19/01/18	19/01/18	must be ready in
291	CM installation in SPS tunnel	26 days	19/01/18	23/02/18	Giovanna (BE-RF)

Main Activities Blocks

CM should RTI in BA6 on 19th Jan'18