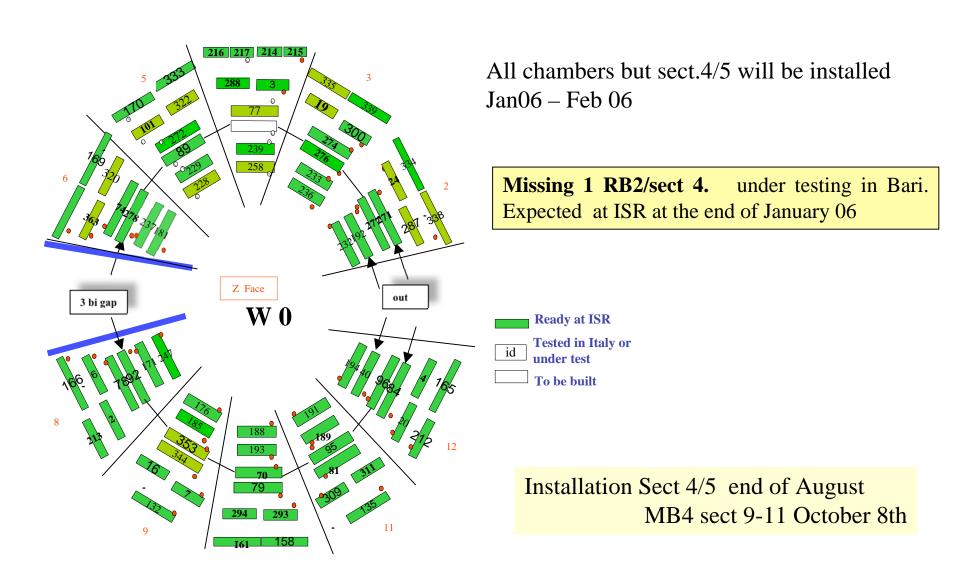


Readiness for installation W0





Readiness for installation W-1

CMS RPC group

1RB1 in construction in Bari. Expected at ISR at the end of January 06

2 RB2 under test in Bari. At ISR at the end of January

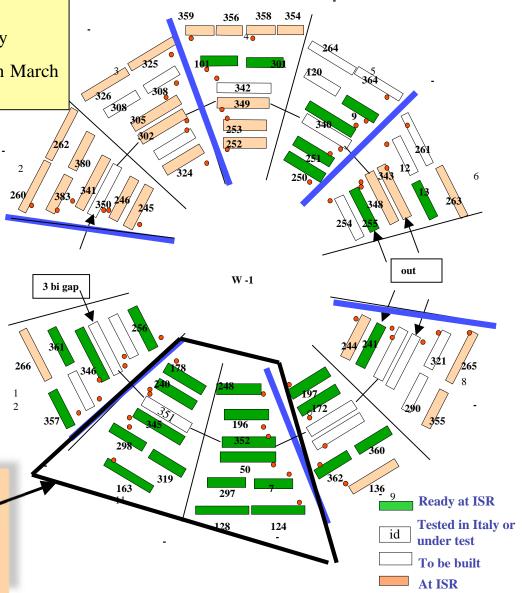
6 RB2 under construction in GT. Expected at ISR in March 06.

Installation remaining 8 sectors: Beginning Sept.06

All chambers ready in May

Readiness for next installation sect 10/11 End Feb 06:

1 RB2 under test in Bari at ISR end Jan06 –ready endFeb06





Readiness for installation W-2

CMS RPC group

2RB1 in construction in GT in January. Expected at ISR in March 06

5 RB2 under test in Bari. At ISR at the end of January

9 RB2 under construction in GT. Expected at ISR in March 06.

Installation remaining 8 sectors: Middle Oct.06

All chambers ready in June

Ready at ISR

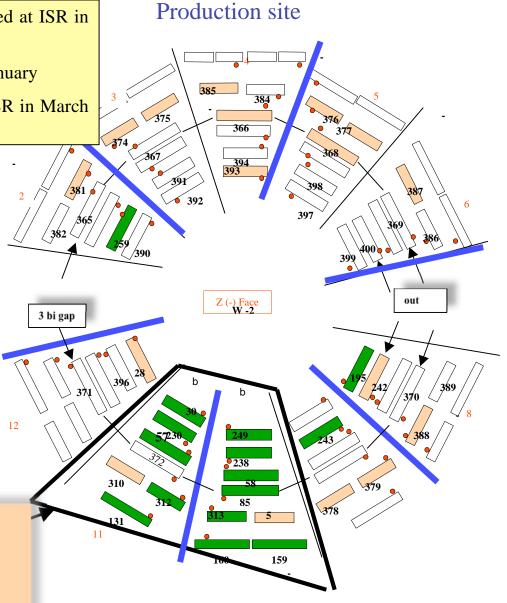
Tested in Italy or under test

To be built

At ISR

Readiness for next installation sect 10/11 End Feb 06:

1 RB2 to be tested in Bari at ISR end Jan06 –ready end Feb06





Additional work on the wheels

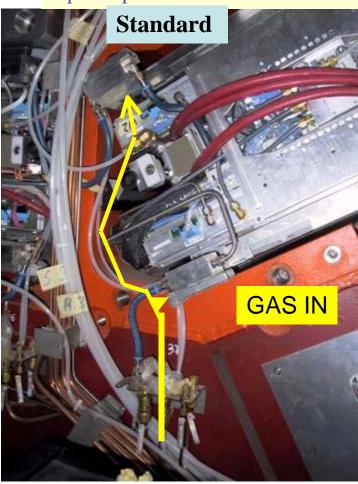
CMS RPC group

Gas system test:

- Commissioning the final gas distributor **DONE ON W+1 and W+2** but not easy operation
- Gas line equalization :

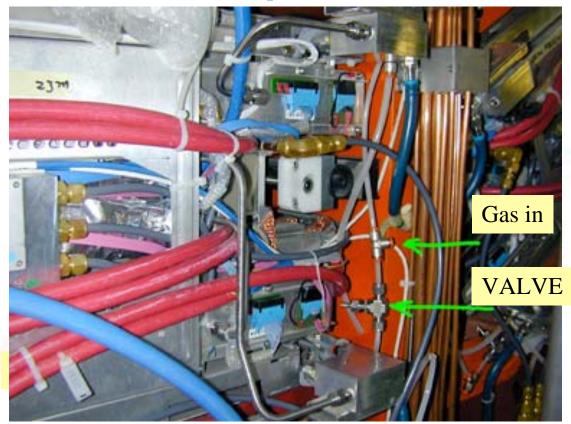
Each CMS gas line supplies in parallel 2 chambers in same station.

Very important to equalize the gas flow between the chambers. Needed in W+2 due to different input impedance between some chambers. **DONE**

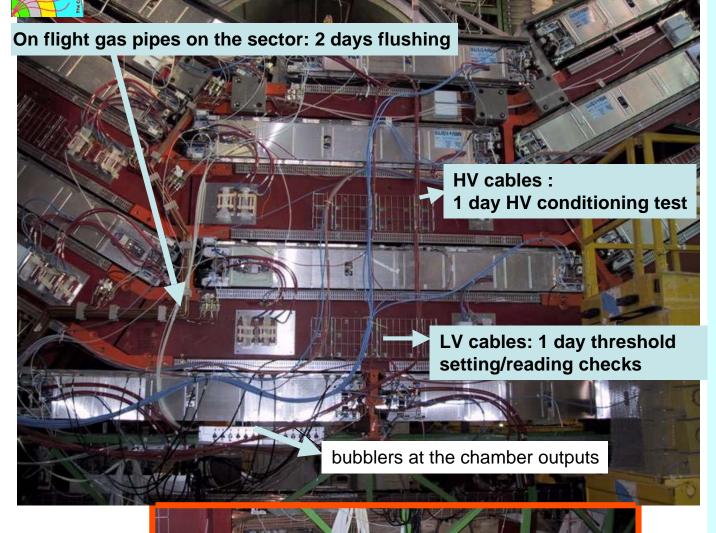


Equalization example:

case chamber 2 lower impedence than chamber 1



Chamber commissioning on wheel W+1



Noise test with frequency-meter:1 day

CMS/

Status

Gas System

- Final gas mixture
- •Gas mixture monitor done
- •Interlock system done
- •Final distributor under commissioning

Chamber test

6 sector/10 sectors tested

- Conditioning under HV
- Connectivity check
- Noise test

Planning

1 sector/week will be improved next week using the final gas distributor



Chamber commissioning on wheel W+1

Problems Found:

- 1)1 disconnected connector (8 strips) from front-end board
- 2)1 Distribution Board was accidentally broken during operation
- 3)High voltage problem inside in RB2 sect 5 need to replace the chamber. But the chamber have be put under test now. Ready middle of Jan 06.

First 2 chambers repaired last week with help of DT group –about 3 hours of work each chamber:

Both muon stations pushed out about 30 cm on Z- side

During operation cooling from patch panel and DT cables/ground cables were
disconnected

The commissioning must be finished by 9 Jan. 06 due to cabling activity on W+1 but we plan to finish the test one week later.



Commissioning on wheel W+2



The commissioning was postponed due to the cabling activity

In order to save time a fast check of all front-end board started with a portable frequencymeter

Up to now Sect 8/9/12 checked. Aim to finish middle December.

Problem found:

1 Broken FB in sect 9

Repaired last week: muon station was pulled out of about 70 cm with cradle on Z- side

The commissioning can start during the cabling operation breaking on W+2 Commissioning plan: 9 Jan- 10 Feb 8 sectors

5-15 Feb. Sect 10/11

From Middle of Feb. test sect 10/11 with final cables and LBB+RBC

SX5 Main Activities up to MT

Activity Name	Start Date	Finish	Dec 05						Jan 06					Feb 06				Mar 06				Apr I		
		Date	27	4	11	18	25	1	8	15	22	29	5	12	19	26	5	12	19	26	2	9	Γ-	
YB+2 Cabling	2/13/06	3/24/06												₹					-				Г	
YB+1 Cabling S07 toS12	1/9/06	3/24/06		-					\sim					+									t	
YB+1 Install YB+1 feet Chambers	2/9/06	2/10/06											Z	1									T	
YB0 Ancillary work																							Γ	
Drill Ground strap holes	1/9/06	1/20/06							7														r	
Mount LV HV PP support plates	1/9/06	1/27/06								"	7	1											Г	
Drill holes for HO RBX, MB1 HV PP	1/9/06	1/27/06									,,												Г	
Mount Radial Trays+rails	1/9/06	1/20/06							7														Γ	
YB-1 Ancillary work.																							Γ	
Drill holes for HO RBx rails, MB1 HV PP support rails	12/5/05	12/16/05																					Г	
Mount MB1 Supports	12/19/05	12/30/05																					Γ	
Mount HO RBx rails	1/2/06	1/13/06							//															
Drill Ground strap holes	1/2/06	1/12/06											54 Chambers to be											
Mount LV, HV JBx	1/13/06	1/26/06											Installed in 5 weeks											
Mount Radial Trays+ flexrails	1/13/06	1/26/06							Г				┞											
YB-2 Ancillary work	12/5/05	2/2/06		Ψ-								V	1										Γ	
YB+0 Installation (20 DT)	1/30/06	2/10/06										V-	\vdash	7									Γ	
YB-0 Installation (11 DT)	2/13/06	2/17/06												\									Γ	
Mount HV PP, LV PC, Connect YB0	2/13/06	3/24/06														,,,	///	///					T	
YB-1, YB-2 S10, S11 Installation (21 DT)	2/27/06	3/10/06														V —	7							

W+2 commiss. W+1 commiss.

Installation After the Magnet Test

Preferred Installation Sequence:

- 1) YB-0 S04, S05: 9 +2 chambers
- Inst. End Aug06
- 2) YB-1 ~8 Sectors: 29 +2 chambers Inst. Beg Sept 06
- 3) YB+2, YB+1 S01, S07: 16 chambers Inst. End Sept 06
- 4) YB-2 ~8 Sectors: 30 +2 chambers Inst. Middle Oct. 06
- 5) YB0, YB-1, YB-2 S01,S07: 24 chamber Inst end 06- beg 07 Ready in Aug 06

The chambers for the first 3 points (58) must be ready by the end of the Magnet Test.

Access time to YB0 can be minimized by commissioning (and cabling) YB+0 and YB-0 in parallel with two dedicated teams.

RPC readiness

Ready in Jan06

Ready in May06

Ready in July 06

Ready in June 06