



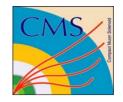
Services consist of

HV, LV, Trigger cables, DCS, temp. Gas and Cooling

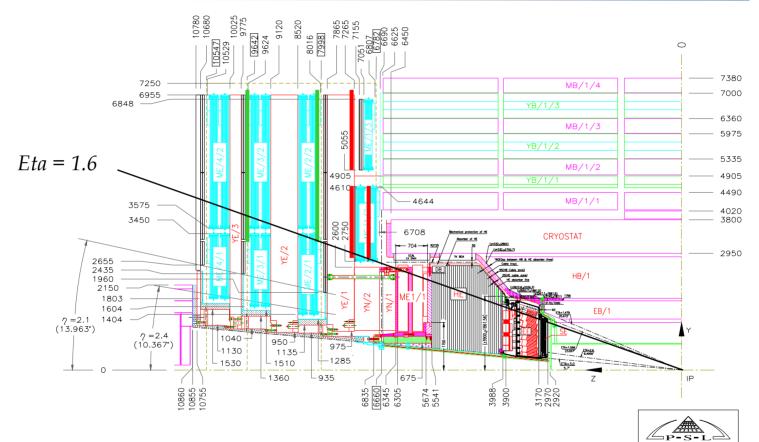
• LBC, EASY Crates & AC-DC



The proposed initial system

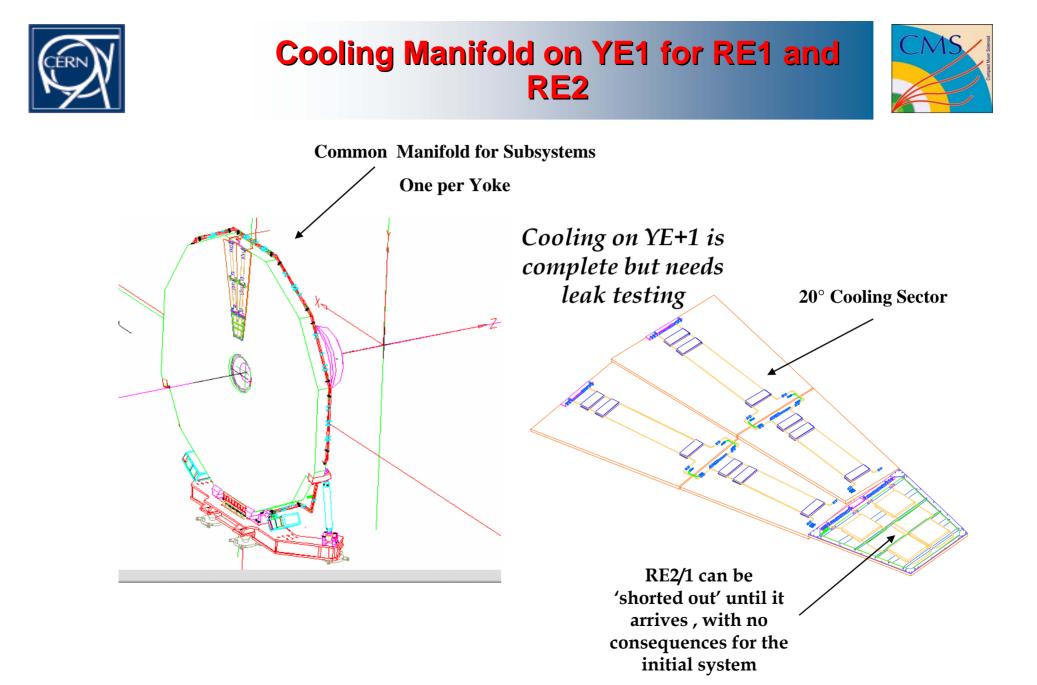


JDP 1-8-2002 CMS 5185_125



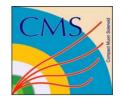
Walter

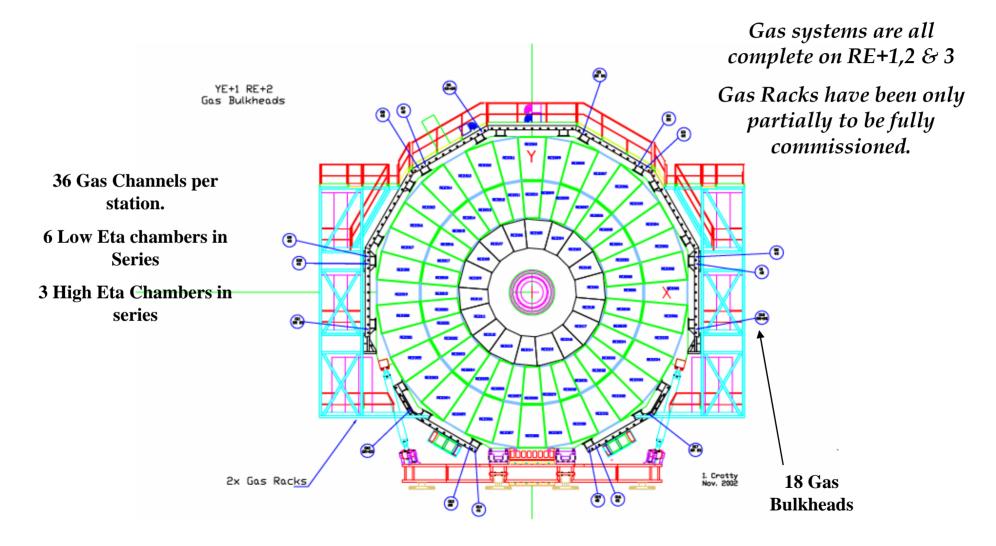
	RE	RE										
	1/1	1/2	1/3	2/1	2/2	2/3	3/1	3/2	3/3	4/1	4/2	4/3
No. of chambers	36*2	36*2	36*2	18*2	36*2	36*2	18*2	36*2	36*2	18*2	36*2	36*





Gas Distribution







Gas Supply in Underground



Gas and Cooling has been laid to RE1/1 emplacement

A temporary gas supply from the surface is operational



Once the Cable chains have been connected for gas in the next few weeks the underground is complete and ready for final commissioning.

The SGX surface building is not yet ready







All Cables and connectors are identical with the Barrel

HV Cables to Patch Panel LV cables to 'Easy' Crates Temperature sensor to ADC crates Trigger and DCS Cables to LBC Grounding to Yoke

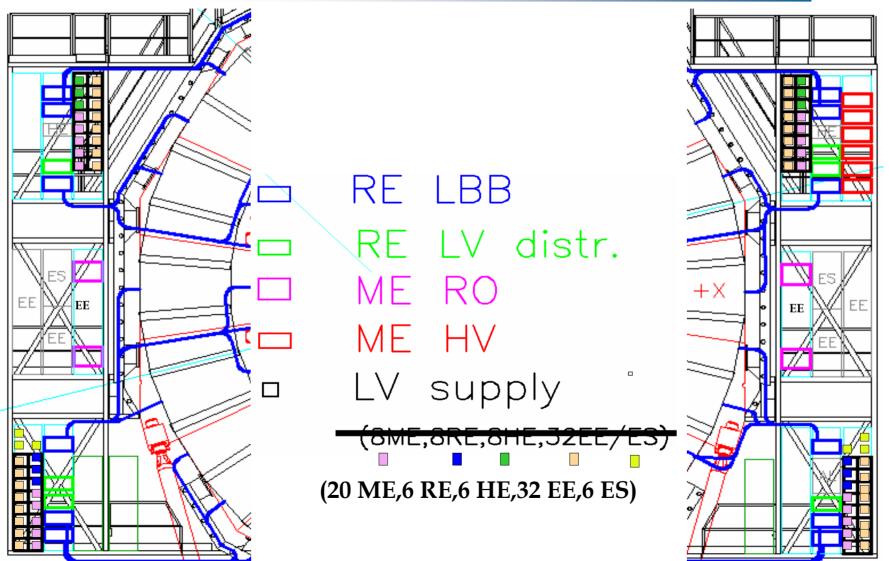
From the chambers all services go to either to the Cable Chain Patch Panels or LBC, EASY crates (LV) and AC–DC Convertors in racks in the towers.

RE1/1 that is staged today has had HV,LV and Fibres installed up to the PP. Link Board Boxes will be placed in the nose.



YE-1 Rack layout (13/8/04)



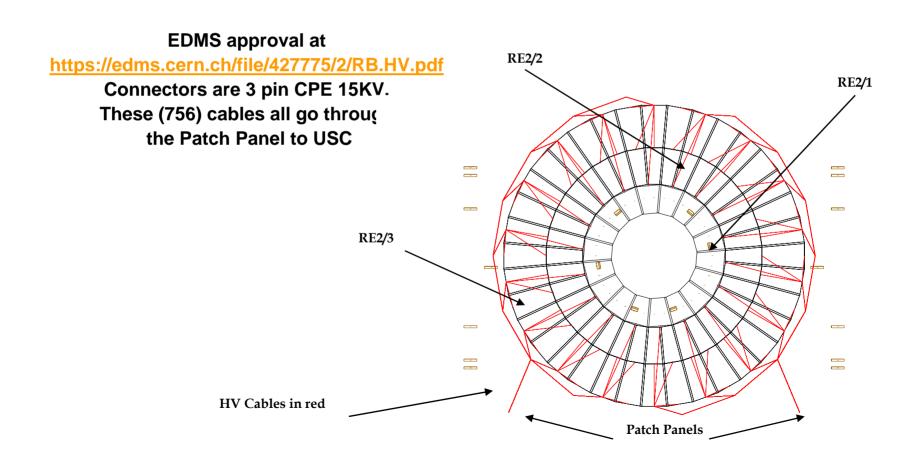


Ian Crotty RE Cabling and Services 01.03.07



HV Distribution in its logical layout













Cables will need terminating

Racks need filling with Adaptor Fan-in boxes and PS

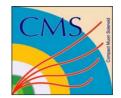
HV Power Supply Racks RE+3 Hv Cables to go into Minicables Chains

All cables have been tested before Installation

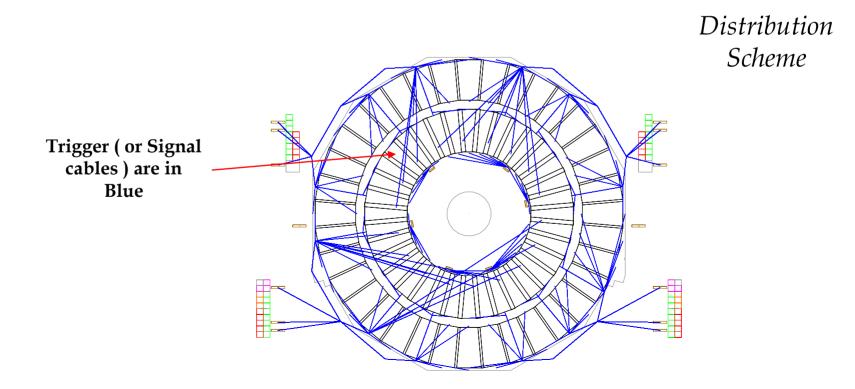








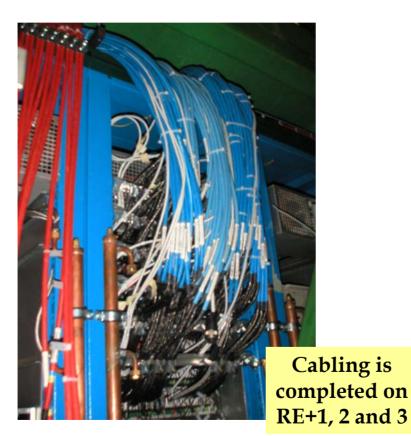
7km have been ordered for skew, fire tests and intial installation in RE and RB Two Cable Constructors are Novacavi And Kabelwerk (Eupen) http://edms.cen.ch/file/473687/1/RB.CA.sgn.pdf



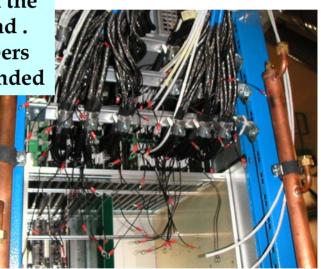


Signal Cables to LBC





No grounding has been done on the LBC end . Chambers are grounded





Cable Assembly and Testing

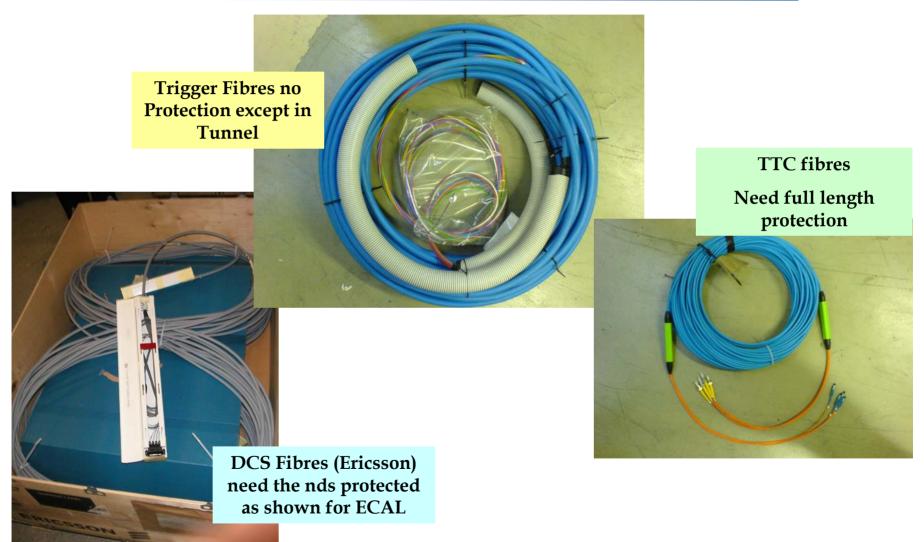


Skew Clear Signal cables are made by Cavitech testing in Switzerland. They are then @ I3 tested in I3. All other Cables have been manufactured and tested by Wrs Wang in the ISR @ I4. This is a very flexible and useful setup. I4 Clean Room and Lab Cable assempbly above



Trigger Fibres In Trigger Tunnels

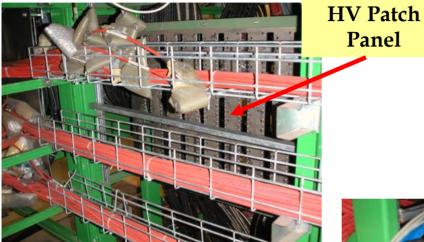




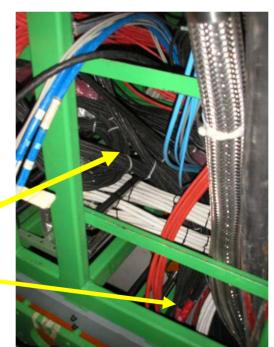


Patch Panel





HV cables for RE+1, 2 & 3 are ready to be connected to the Multi cable from the USC. If you can find them !





Trigger fibres need protecting







RPC Forward Services Status

lan Crotty 28 February 2007

	Raw mat	RE+3/3	RE+3/2	RE+2/3	RE+2/2	RE+1/3	RE+1/2	RE+1/1	RE-1/1	RE-1/2	RE-1/3	RE-2/2	RE-2/3	RE-3/2	RE-3/3
HV	Raw mat.														
	Produced														
	Installed														
	Commissioned														
LV	Raw mat.														
	Produced														
	Installed														
	Commissioned					MTCC	MTCC								
DCC	Raw mat.					MICC	MICC								
DCS	Produced														
	Installed														
	Commissioned					MTCC	MTCC								
	Commissioned					WITCO	WITCC								
Signal	Raw mat.														
Olgital	Produced														
	Installed														
	Commissioned					MTCC	MTCC								
	Commissioned					WITCO	WITCO								
Temp.	Raw mat.														
	Produced														
	Installed														
	Commissioned														
Gas Inter	Raw mat.														
	Produced														
	Installed														
	Commissioned														
Gas Bulk	Raw mat.														
	Produced														
	Installed														
	Commissioned														
Cooling Inter															
	Produced														
	Installed														
	Commissioned														
Cooling	_														
manif.	Raw mat.														
	Produced														
	Installed														
	Commissioned	Comilao	- 04 03												







All Piping gas and cooling on the yokes is ready for connection . Cables for inter Rack/Crate have to be determined and manufactured. This is starting now. All installed chambers can be commissioned. The last Signal cables for RE-3 are ready to be ordered since lengths , connectors and spec are all ready. Some Gas Rack commissioning is complete. Still plenty to do to get it on the road with help from all colleagues