



Authorisation for Work in Sensitive Areas for He Spill

The [Memorandum](#) of 10.9.2014 stipulates that work in the vicinity of cryogenic equipment in the arc and LSS of the LHC (on the QRL-side of the accelerator and close to DFB and stand-alone magnets) requires an authorisation by the Complex Manager.

The present form must be completed and submitted with the annexes to the [TE DSO](#), who will recommend authorisation after satisfactory completion of a risk assessment, which may imply changes to the method statement.

1. Identification

Department/ Group /Section	BE/BI/BL	Date	2014/11/11
Person in charge	M. Sapinski		

2. Description of Work

Title:	BGI cameras		
Short Description:	The BGI cameras will be installed and might be serviced.		
Location in LHC:	Instrument	DCUM start	DCUM end
	BGIH.5L4.B1	9932.2652	9933.8652
	BGIV.5L4.B1	9934.0652	9935.6652
	BGIV.5R4.B2	10058.4972	10060.0972
	BGIH.5R4.B2	10060.2972	10061.8972

3. Attachments

Method Statement / Procédure Opératoire

D5L4 for beam 1:

The BGI for beam 1 are on the tunnel passage side. A passage between the beam pipe and the QRL is only necessary in order to check the cabling



Photo 1: Situation in D5L4

D5R4 for beam 2:

The axis of the LHC beam pipes towards the QRL will be crossed for the installation of the beam 2 BGI camera in vacuum sector D5R4.

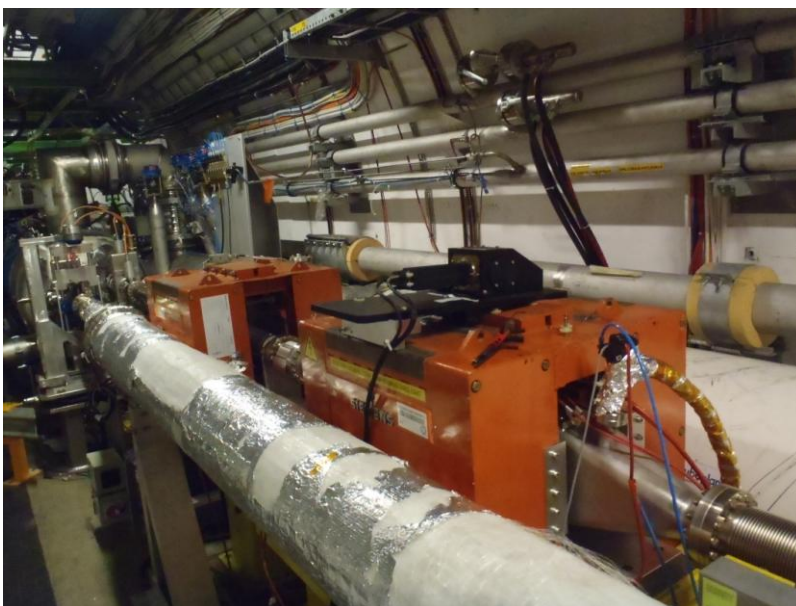


Photo 2: Situation in D5R4

**Nominative list of intervening personnel**

CERN	FSU:
Mariusz Sapinski	Claude Rinaldi
Bernd Dehning	Gregory Lahu
Gerhard Schneider	Frederic Camba
Morad Hamani	Karim Kessi
Christophe Vuitton	
Raymond Veness	
William Andrezza	
Delphine Gerard	

4. Recommendation by the TE-DSO

The BGI cameras are installed at about 4 metres from the DFBME and DFBMK, equipped with sensitive cryogenic instrumentation. Access to the BGI cameras does not require approaching the DFBs and the risk of causing a Helium spill during these activities is excluded.

I recommend to authorise the installation and servicing of BGI Cameras in the frame of the activities of the BE-BI-BL section for Run 2.