



## 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 | 11.11.2014 |
| Person in charge           | Jonathan Emery. |      |            |

### 2. Description of Work

|                    |  |            |            |
|--------------------|--|------------|------------|
| Title:             | <b>BWS Servicing</b>   |            |            |
| Short Description: | For maintenance and repair of Beam Wire Scanner (BWS) equipment We need to access to the wire-scanner locations for maintenance and repair purpose which include access next to the QRL. |            |            |
| Location in LHC:   | 5L4 and 5R4. For this we need to access to the whole "IP4 RF zone"   |            |            |
|                    | Instrument   | DCUM start | DCUM end   |
|                    | <a href="#">BWS.5L4.B2</a>   | 9911.7052  | 9912.7052  |
|                    | <a href="#">BWS.5R4.B1</a>   | 10081.4572 | 10082.4572 |

### 3. Attachments

#### Method Statement / Procédure Opératoire ☒

We need to access the two sides of the beam lines around the wire scanner (see pictures below) in order to work on the mechanism of the scanners, remove and install scanners on the wire-scanner tank, connect and disconnect cabling; measures wire resistance with Ohmmeter and other mechanical and electrical work.



Wire-scanner location at 5R4



Wire-scanner location at 5L4

**Nominative list of intervening personnel** ☒

*BE-BI-BL*: Emiliano Piselli, Joel Adam, Ion Savu, Ewald Effinger, Fernando Steve Domingues Sousa, Adrien Tambasco, Roberto Rocca, Raymond Tissier, William Vigano, Bernd Dehning, Jonathan Emery.

*BE-BI-SW*: Ana Guerrero Ollacarizqueta, Guillaume Baud.

*BE-BI-ML*: Christophe Vuitton, Morad Hamani, Gerhard Schneider; William Andrezza, Delphine Gerard.

*FSU-ML*: Claude Rinaldi, Gregory Lahu, Frederic Camba

**4. Recommendation by the TE-DSO**

The Beam Wire Scanners are installed at about 30 metres from the DFBME and DFBMK, the next places of sensitive cryogenic instrumentation. A Helium spill caused by access to and work on the BWS is excluded.

**I recommend to authorise the servicing of Beam Wire Scanners (BWS) in the frame of the activities of the BE-BI-BL section for Run 2.**