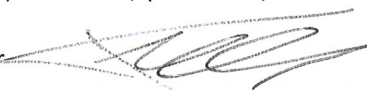




Edms No. 1411204  
10 September 2014

## MEMORANDUM

**To :** (BE, EN, GS, PH, TE) Department Heads, HSE Head, (BE-EN-TE) DSOs, LHC CSAP Chairman  
**From :** Frédéric Bordry, as Complex Manager   
**Subject :** Potential Helium Spill – Implementation of the Working Group Recommendations

---

The recommendations of the Working Group in charge of assessing risks and consequences of a potential Helium spill in the LHC tunnel were presented at the LMC on 27/08/2014. Based on this presentation, it is decided that all recommendations shall be implemented, and in particular that the access to LHC accelerator underground shall be regulated according to the matrix proposed by the Working Group in the EDMS documents [1410247 \(report\)](#) and [1410252 \(presentation\)](#).

All changes, of which the major ones are:

- the use of personal ODH detectors (portable) in defined conditions;
- the definition of two different level of energies during powering phase 1, each level of energy leading to particular access conditions;
- the need to get authorized to work on or in the vicinity of cryogenic equipment when their temperature is below 80 K

take effect on the date of this memorandum. Operational procedures previously used to access the LHC, depending on the status of the machine, shall be updated accordingly.

As recommended by the Working Group, works in the vicinity of cryogenic equipment located in the arc (QRL) and of the LSS (electrical feed boxes, standalone magnets and QRL) of the LHC, below 80 K, can exceptionally be authorized, provided these works are carried out according to approved procedures that take into account restricted access zones.

The request for a “work frame authorization” is to be addressed by the requester’s DSO via the TE DSO to the Complex Manager in accordance with the procedure [EDMS 1406764](#).

The final decision will be taken by the Complex Manager depending on the risk assessment, and might result in:

- Authorizing the works;
- Authorizing the works, provided equipment such as the closest DFBs and/or standalone magnet(s) is (are) emptied or depressurized;
- Not authorizing the works.