

Health and Safety Tools at ALBA Synchrotron facility

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ALBA is the Spanish synchrotron facility formed with 3GeV electron synchrotron accelerator generating bright beams of synchrotron radiation, located in Cerdanyola del Valles (near Barcelona city).

The electrons are accelerated in a 100 MeV linear accelerator (LINAC). Then, the electron beam enters in a synchrotron accelerator named Booster that increases the energy up to 3 GeV. Finally, the electron beam is stored in a synchrotron Storage Ring with a current up to 400 mA emitting synchrotron radiation (mainly in the X-ray range), tangentially to the electron trajectory. Around the Tunnel and outside the concrete shielding and tangentially to the Storage Ring, there are the experimental research laboratories; named beamlines (nowadays there are 8 installed and 2 under construction). At each beamline the scientists use the synchrotron light generated by the accelerator for a wide variety of experiments.

The aim of this work is to explain how we improve in safety terms, developing new safety tools in order to improve communication between different departments.

During 2016 and 2017 ALBA has been implementing two new software: Confluence and Health and Safety Service Desk (Jira).

Health and Safety Service Desk is one of the most important daily tools. This software allows to request for authorization, such a hazardous activity, an external company entrance or training; or to inform about a new event, such an accident, any situation that can imply an accident or a new working condition.

However, Confluence is a team collaboration software. It allows to public safety documents and to share them with others departments assuring that the safety information, such a procedure or an information sheet, arrives to all the employees.

In this work we will show the system's development, its usage and how it improves the communication channels between departments in order to foresee safety matters providing issue tracking and project management functions.

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