

## Asset and Maintenance Management for the Vacuum, Surface and Coatings Group (VSC)

*Tuesday 13 October 2015 14:50 (20 minutes)*

The VSC group at CERN is in charge of the design, construction, operation, maintenance and upgrade of high and ultra-high vacuum systems for Accelerators and Detectors. The VSC components are numerous (tens of thousands) and are spread over different accelerators and locations. For the asset and maintenance management it has been decided to use a CERN supported tool, namely Infor-EAM (Enterprise Asset Management). Since January 2015 interventions for corrective and preventive maintenance of vacuum equipment are scheduled by work orders customized according to the VSC requirements. Analysis of work orders for scheduled and unscheduled interventions will provide valuable data, such as frequency and trends on equipment reliability, giving inputs for VSC spare parts policy and equipment consolidation needs.

For accelerator operation, the daily monitoring will be facilitated by a user-friendly checklist to be filled by the VSC standby-service, validated by the VSC expert, and generating the information source for work order creation.

The strategy for the logistics and storage is based on a central storage (mainly for operational spares) with a few satellite locations. The assets are currently being registered in Infor-EAM to record and track their technical parameters, quantity and location, and trigger procurement when stocks fall below defined thresholds. For certain assets a link to the maintenance plan is also foreseen. The interface for the maintenance of the helium leak detectors is operational. The next step will be the integration of the assets for the sector valves, as well as primary pumps and turbo-molecular pumps.

The presentation will illustrate the work performed by the VSC group during the past two years, and will present the future actions.

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