Work Organization, Maintenance Planning and Maintenance Experience session

Pierre Bonnal  DG-DI
Christophe Delamare GS-ASE
Marine Gourber-Pace BE-CO
Damien Lafarge EN-HE
Christophe Mugnier TE-EPC
Goran Perinić TE-CRG
Regis Pilon TE-EPC
Ingo Ruehl EN-HE
Eric van Uytvinck EN-EL
David Widegren GS-ASE
Zornitsa Zaharieva BE-CO

Asset Maintenance Management Workshop

AMMW 2013
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Safety Organization of the ATLAS experiment

- Many conventional risks in the same place
- Many specific risks in the same place
- Projects to define solutions in radioactive environments (live biometry monitoring and remote handling)
Maintenance in the CERN cooling and ventilation group

- KPIs calculated based on WO data

- Importance of quality and completeness of data in WOs for KPIs calculation

- Mobile devices application

- Online vibration analysis
LS1 maintenance for the cryogenic installations

- Very good performance (~92% availability)

- Systematic analysis of origins of downtimes

- Maintenance plans defined in details through BOM, procedures & schemes

- Offline vibration analysis
Inspections of EN/EL transformers

- Periodic interventions on transformers ~preventive

- List of parameters evaluated or measured

- Triggers corrective interventions

- Parameters automatically analyzed
Maintenance of Power Conv. based on Failures Data

- Analysis of failures data to optimize maintenance

- Weibull approach to detect obsolescence of diodes based on 5 defects out of 10’000 diodes

- Triggers replacement plan for diodes

- Importance of completeness and quality of data
Spare part management in the EN-CV group

- Important number of references to manage
- Workflow based on pick tickets for traceability
- Efforts put on improvement of stock thanks to KPIs and standardization
Contract management, contract adjudication, outsourcing

- Presentation of the Best Value for Money method

- Method evaluating bid mark adding price mark and quality mark

- 41 contracts adjudicated since 2008 out of 78 contracts at CERN