EOT Cranes works
Why to replace PR137?

- Crane with obsolete electrical components in non reliable working condition;
- Spare parts not available on the market;
- Is the only crane on the BOOSTER dump area and will be Intensively used during LS2;
- Non-conform with actual safety standards;
- Presence of halogen on the electrical cables;
Why to revamp PR’s 134, 135 & 136?

- Mechanical structure is in good general condition;
- The parts taken from PR-137 (e.g. motors and gearboxes) can be revised/refurbished and reused if necessary to repair these 3 cranes;
- Electrical components and cables in bad condition;
Replacement of PR137 by PR284

- Start date: 13 January
- Duration of the works: 3 weeks
- Location: BOOSTER Transfer / Dump Line
- Cost of the project: ~ 105 kCHF
- Payment: 95821 (78%) + 54340 (22%)
PR137 replacement works

- **Working area:**
  - Radiation ambience dose (< 10 µSv/h);
  - No critical BOOSTER components around;

- **Working platform:**
  - Protection to the beam line;
  - Safe access to the works performed at height;
  - Dimension of 5m x 5m / h= 2.1m;
  - Platform maximum load 650 kg/m².
PR137 replacement works

Working platform
PR137 replacement works

- **Overview of the tasks:**
  - Assembling of the working platform over the beam line and installation of the auxiliary lifting devices;
  - Transport of PR284 parts to the working area;
  - Assembling of the new crane PR284;
  - Disassembling of the old crane PR137;
  - Electrical connection, tests and last adjustments on PR284;
  - Radiological control and transport of PR137 crane pieces outside the BOOSTER;
  - Disassembling of the working platform and auxiliary lifting devices.
Revamping of PR’s 134, 135, and 136

• Start date: **13 January**
• Duration of the works: **6 weeks**
• Location: **BOOSTER ring**
• Cost of the project: ~ **120 kCHF**
• Payment: **53310** (2014 crane consolidation budget)
Revamping of PR’s 134&135&136

• Working area:
  • Radiation ambience dose (< 4 µSv/h);
  • Important BOOSTER components around (extreme care shall be taken)!

• Working platform:
  • Protection to the accelerator components;
  • Safe access to the works performed at height;
  • Dimension of 3m x 4.7m / h= 3m;
  • Platform maximum load 250 kg/m².
Revamping of PR’s 134 & 135 & 136

- Overview of the tasks:
  - Construction of the electrical cabinets on the contractor’s workshop;
  - Assembling of the working platform on BOOSTER ring and installation of auxiliary lifting devices;
  - Removal of the old electrical cables and cubicles from PR134;
  - Assembling of the new electrical cables and cubicles on PR134;
  - Removal of the old electrical cables and cubicles from PR135;
  - Assembling of the new electrical cables and cubicles on PR135;
  - Removal of the old electrical cables and cubicles from PR136;
  - Assembling of the new electrical cables and cubicles on PR136;
  - Tests and last adjustments;
  - Radiological control and transport of the old pieces outside the BOOSTER;
  - Disassembling of the working platform and auxiliary lifting devices.
Questions / Comments?

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