

BOOSTER

EOT Cranes works

EN-HE-HM



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:

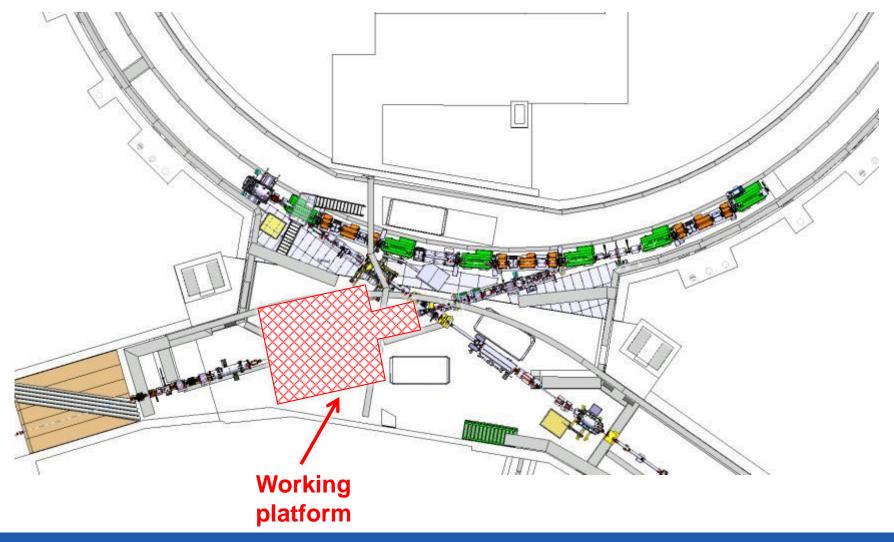
- Radiation ambience dose (< 10 µSv/h);
- No critical BOOSTER components around;

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





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's134&135&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's134&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.



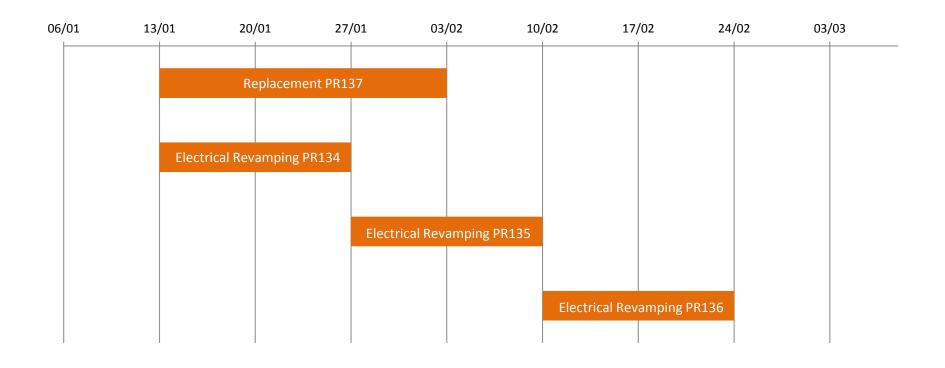
Revamping of PR's134&135&136

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.



Works Planning





Questions / Comments?

