

MPS re-commissioning in the MPP

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Goals

- Review changes in machine protection systems during LS2
- Update and re-release commissioning procedures where required
- Discuss the re-commissioning plans, including possible special needs, with focus on machine protection in the MPP
- Derive a machine protection check list for the commission (BE-OP, HW experts and MPP)

Machine Protection and Related Systems

| MPS System | MPP presentation | Procedure | Release date |
|-------------------------------|------------------|----------------------|--|
| Collimation System | 21.05. | <u>889345 v.2.2</u> | V2.1 released 13.09.2017; V2.2 under approval |
| Injection Protection System | 23.04. ✓ | <u>889343 v.4.0</u> | 08.06.2016 |
| Beam Interlock System | 19.02. ✓ | <u>889281 v.3.0</u> | 21.04.2016 ✓ |
| Powering Interlock System | 19.02. ✓ | <u>896390 v.4.0</u> | 12.02.2016 |
| Vacuum System | 26.03. ✓ | <u>896391 v.1.0</u> | 03.06.2016 |
| Beam Dump System | 23.04. ✓ | <u>896392 v.3.0</u> | 02.06.2016 |
| FMCM | 19.02. ✓ | <u>896393 v.3.2</u> | 02.03.2018 ✓ |
| BLM System | 30.04. | <u>896394 v.3.4</u> | Approval closed 13.03.2018 |
| Warm Magnet Interlock System | 19.02. ✓ | <u>896395 v.3.0</u> | 24.02.2016 ✓ |
| Safe Machine Parameter System | 19.02. ✓ | <u>1112187 v.1.0</u> | 01.08.2016 ✓ |
| Software Interlock System | 30.04. | <u>1062498 v.1.3</u> | 15.01.2020 |
| Beam Current Change Monitor | tbd | in work | ECR: <u>2308155 v.0.1</u> |
| Beam Beam Wire Compensator | tbd | <u>2384198 v.0.1</u> | Under approval 11.06.2020 |
| Transvers damper (ADT) | tbd | | Commissioning needs to be defined |
| TOTEM / CTPPS | 21.05. | No procedure | |
| ARP | 21.05. | No procedure | |