LHC - LS2 2018-2021
Coordination meeting #50

17th September, 2019

AGENDA:
Safety point
LHC-LS2 planning

Marzia Bernardini, Julie Coupard, Michela Pirozzi, Estrella Vergara
LHC-LS2 Coordination

- Piquet’s phone number: **161669**

- INDICO: https://indico.cern.ch/category/7200/ (LHC-LS2)

- OSS website (planning, constraints, useful links…):
  https://lhc-coordination.web.cern.ch/

- LS2 Plannings (all accelerators)
- LS2 Access constraints
- LS2 Baseline EDMS 1817804
News and questions

1. LS2 days: 8\textsuperscript{th} and 9\textsuperscript{th} October 2019 → See agenda

2. LHC- NEW LS2 linear baseline → Presentation at the LS2Committe on Friday 20\textsuperscript{th} September

3. LSS7:
   - EE system maintenance in RR77
   - Shielding removal also in RR77 (for DQRB maintenance) – 14\textsuperscript{th} and 15\textsuperscript{th} October
   - RR73, RR77 racks removal with respect to cabling campaign?
LHC-LS2 Baseline main changes (wrt actual Baseline)

- **EN-CV:**
  - Maintenance in P18 → from 16th to 24th April 2019
  - Maintenance dates TBD for P3 and P7
  - New activity in UJ56 (pump replacement & cabling)
  - Raw water network tests in the whole LHC

- **EN-EL:**
  - General re-organization of cable campaign: Fiber Optical campaign, Powering cables campaigns
  - Transformers replacement
  - Access constraints related to electrical maintenance
  - AUG test P18: date TBC

- **EN-HE:**
  - PM65 no lift replacement;
  - PX15: additional new lift replacement
  - Mafi line in S.78 (no need)

- **EN-SMM:** smoothing@cold (dates TBC)

- **DISMAC & Magnets exchange**
  - No changes for opening, consolidation, closure and leak tests
  - Changes for CC in LSS2 and 11T planning installation and readiness dates
  - Consolidation of Q16L2 and C16L2
  - c’k lines leak tests reschedule

- **HL-LHC:** WP11 11T infrastructure installation compatible with both configuration
- **HL-LHC:** WP17 UPR 57 opening for HL
- **HL-LHC:** aC coating Q5R2, Q6R2, Q6L8 (postponed to 2020)
LHC-LS2 Baseline main changes (wrt actual Baseline)

- TE-CRG & TE-VSC:
  - QRL leak in s.1-2 → action plan TBD
  - leak in DFBA7L → action plan TBD

- TE-VSC:
  - RF ball
  - Conflict between RF ball and survey alignment in LSS5

- EP : FASER

- BE-ICS:
  - LACS consolidation
  - LASS commissioning (strategy to be validated)

- SMB-CE:
  - New cores for cabling campaign LSS7
  - New cable campaign in LSS7
  - Cleaning campaign end LS2
LHC-LS2 Baseline main changes (wrt actual Baseline)

LSS1:
- AFP activities
- EN-STI: Wire collimators exchange (new task)

LSS2:
- MKI readiness date
- TCLIA → bake out installation starting from 30-09-2019

LSS4:
- ACS module replacement (new task)
- BE-BI: Wire Scanner and BSRT

LSS5:
- EN-STI: Wire collimators swap (new task)
- TOTEM activities wrt LSS5 Alignment

LSS6:
- MKD maintenance
- BTSVE → bake out installation starting from 14-10-2019

All LSS→ EN-SMM Monitoring system consolidation
11T installation in S.67 and S.78

Standard commissioning time allocated in S.67

No extended training quenches duration allocated in S.67 and S.78
AFP activities VS Mechanical pulling

Request:
- LSS1R & LSS1L week 42-43 even after 5 pm
BSRT → Confirmed?
BWS → Confirmed?

LHC coordination meeting
EN-EL Optical Fibre Campaign DOFRT – LSS1
**EN-EL Optical Fibre Campaign DOFRT – LSS5 & LSS7**

<table>
<thead>
<tr>
<th>LHS5R50-FL202</th>
<th>5</th>
<th>DOFRTS</th>
<th>UJ56+UL55+LSS5L+arc45</th>
<th>LSS5 &amp; LSS7R+arc56</th>
<th>Duct pulling</th>
<th>Scaffold installed (RS6), cable passage open (UL55 to UL57), cable passage open (UJ56 to LHC), lock-out of DFBs + monorail</th>
<th>4</th>
<th>With activity Ref. LH5H50-FL201</th>
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LSS5R ➔ 27/07/2020?
LSS5L ➔ 12/10/2020?

**LSS7R**

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<thead>
<tr>
<th>ID</th>
<th>Unique ID</th>
<th>Task Name</th>
<th>Predecessor</th>
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<td>Pulling cable</td>
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<td>2576</td>
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<td>2577</td>
<td>2670</td>
<td>Opening cable passages in UJ67</td>
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<td>2579</td>
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<td>2580</td>
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<td>2581</td>
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<td>2279</td>
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<td>2584</td>
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**LSS7L ➔ 14/10/2019?**

**Compatible?**
LHC-LS2 EN-EL Maintenance

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<th>AUG NO ACCESS*</th>
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<tr>
<td><strong>Point</strong></td>
<td><strong>Point</strong></td>
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<tr>
<td>LHC1 + ATLAS</td>
<td>LHC1 + ATLAS</td>
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<tr>
<td>LHC18 + SM18</td>
<td>LHC18 + SM18</td>
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<tr>
<td>LHC2 + ALICE</td>
<td>LHC2 + ALICE</td>
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<tr>
<td>LHC3 + PM32</td>
<td>LHC3 + PM32</td>
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<td></td>
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<tr>
<td>LHC5 + CMS</td>
<td>LHC5 + CMS</td>
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<tr>
<td>LHC6</td>
<td>LHC6</td>
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<tr>
<td>LHC8</td>
<td>LHC8</td>
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<tr>
<td>TEST SECOURS (10min)</td>
<td>LHC8</td>
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<td></td>
<td>Preveissin</td>
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<tr>
<td></td>
<td>Meyrin + Adm.</td>
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<tr>
<td>400 kV Test</td>
<td>Auto-transfet</td>
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</table>

* NO ACCESS in SURFACE and UNDERGROUND (Guardian at the point entrance)
From 16 September to 3 October 2019:
- CERN is supplied from one source at 400 kV (via the new BE2 substation) until the other source at 400 kV becomes available again

From 16 September 2019 to May 2020:
- No auto-transfer available (i.e. automatic reconfiguration of the electrical network in case of a voltage failure on the general services networks) until completion of the ME9 substation consolidation in May 2020
- Meyrin’s administrative loop (supplying locations such as the hotels and the Council room) will be manually re-supplied through a dedicated cable from ME10 in case of long power loss (thus by-passing the ME9 substation)
- This link will be available on 20 September 2019 (and until May 2020)
- Resupply time: 30 minutes during normal working hours / 2 hours outside normal working hours

High voltage specialists (EN-EL and Contractors) will be fully available during the period with a single source to minimize downtime
- Re-powering the BE2 substation in case of failure expected within 2 hours in most cases
Access constraints during EL-Maintenance edms LHC-L-PRD-0002

5.6 Maintenance électrique au point 6

Accès interdit en LSS 5R, Arc 56, LSS 5 L+R, Arc 67, LSS 7L

Position de barrière au Point 5

Barrier Position at Point 7

5.7 Maintenance électrique au point 7

Accès interdit en LSS 6R, Arc 67, LSS 7 L+R, Arc 78, LSS 8L

Position de barrière au Point 8

Position de barrière au Point 6

LHC coordination meeting 15 Sep 2019
# LHC-LS2 EN-CV Maintenance

## LHC1

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<thead>
<tr>
<th>Point</th>
<th>Activity</th>
<th>Week Start</th>
<th>Start Date</th>
<th>End Date</th>
<th>Duration</th>
<th>Status</th>
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<tbody>
<tr>
<td>SU1 - Ventilation Maintenance (RR, RE)</td>
<td>W51</td>
<td>17-Dec-18</td>
<td>21-Dec-18</td>
<td>1 wk</td>
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<tr>
<td>SU1 - Cooling Maintenance</td>
<td>W2</td>
<td>07-Jan-19</td>
<td>01-Feb-19</td>
<td>4 wks</td>
<td>Completed</td>
<td></td>
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<tr>
<td>SF - CV Maintenance - Dependant from SPS tests in BA6</td>
<td>W4</td>
<td>21-Jan-19</td>
<td>29-Mar-19</td>
<td>10 wks</td>
<td>Completed</td>
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<tr>
<td>USA15 + US15 cooling + ventilation maintenance - Impact on LHC Tunnel Ventilation</td>
<td>W6</td>
<td>04-Feb-19</td>
<td>01-Mar-19</td>
<td>4 wks</td>
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<tr>
<td>USA15 EM</td>
<td>W10</td>
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<td>4 wks</td>
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<tr>
<td>SF+SU reduced - CV Maintenance</td>
<td>W50</td>
<td>07-Dec-20</td>
<td>08-Jan-21</td>
<td>3 wks</td>
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<tr>
<td>USA reduced - CV Maintenance + ventilation RR, RE</td>
<td>W3</td>
<td>11-Jan-21</td>
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## LHC2

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<th>Duration</th>
<th>Status</th>
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<tbody>
<tr>
<td>SU - Ventilation Maintenance - Cooling, UA, RE</td>
<td>W40</td>
<td>30-Sep-19</td>
<td>01-Nov-19</td>
<td>5 wks</td>
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<tr>
<td>SF - CV Maintenance</td>
<td>W45</td>
<td>04-Nov-19</td>
<td>17-Jan-20</td>
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<tr>
<td>SU - CV Maintenance</td>
<td>W16</td>
<td>15-Apr-20</td>
<td>20-May-20</td>
<td>5 wks</td>
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<tr>
<td>UW reduced - CV Maintenance - EG Only</td>
<td>W34</td>
<td>17-Aug-20</td>
<td>14-Sep-20</td>
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<td>SF+SU + Ventilation UA - CV reduced Maintenance</td>
<td>W45</td>
<td>02-Nov-20</td>
<td>20-Nov-20</td>
<td>3 wks</td>
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## LHC3

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<th>Duration</th>
<th>Status</th>
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<tbody>
<tr>
<td>SU - Ventilation Maintenance</td>
<td>W12</td>
<td>16-Mar-20</td>
<td>14-Apr-20</td>
<td>4 wks</td>
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<tr>
<td>SU - CV Maintenance</td>
<td>W12</td>
<td>16-Mar-20</td>
<td>14-Apr-20</td>
<td>4 wks</td>
<td>Not Started</td>
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<tr>
<td>UW - CV Maintenance - Cooling, UA, RE</td>
<td>W21</td>
<td>22-May-20</td>
<td>19-Jun-20</td>
<td>4 wks</td>
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<tr>
<td>UW reduced - Cooling Maintenance - Ventilation reduced</td>
<td>W37</td>
<td>07-Sep-20</td>
<td>28-Sep-20</td>
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<tr>
<td>SF+SU reduced - CV Maintenance</td>
<td>W42</td>
<td>12-Oct-20</td>
<td>30-Oct-20</td>
<td>3 wks</td>
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## LHC4

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<th>Duration</th>
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<tbody>
<tr>
<td>SF - CV Maintenance</td>
<td>W7</td>
<td>10-Feb-20</td>
<td>08-Apr-20</td>
<td>8.5 wks</td>
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<tr>
<td>SU - CV Maintenance</td>
<td>W16</td>
<td>14-Apr-20</td>
<td>19-May-20</td>
<td>5 wks</td>
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<tr>
<td>UW, UA, RE - CV Maintenance</td>
<td>W21</td>
<td>20-May-20</td>
<td>30-Jun-20</td>
<td>4 wks</td>
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<td>SF+SU reduced - CV Maintenance</td>
<td>W42</td>
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<td>30-Oct-20</td>
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<td>UW reduced - CV Maintenance</td>
<td>W42</td>
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<td>30-Oct-20</td>
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## LHC5

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<th>Point</th>
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<th>Start Date</th>
<th>End Date</th>
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<tbody>
<tr>
<td>SF - CV Maintenance</td>
<td>W50</td>
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<td>W50</td>
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<td>14-Dec-18</td>
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<td>USCSS - CV Maintenance</td>
<td>W50</td>
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<td>08-Mar-19</td>
<td>11 wks</td>
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<th>End Date</th>
<th>Duration</th>
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<tbody>
<tr>
<td>UW, UA, RE - CV Maintenance</td>
<td>W40</td>
<td>30-Sep-19</td>
<td>23-Sep-19</td>
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<td>SF - CV Maintenance</td>
<td>W44</td>
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<td>10-Jan-20</td>
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<td>W3</td>
<td>13-Jan-20</td>
<td>07-Feb-20</td>
<td>4 wks</td>
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<td>UW reduced - CV Maintenance (TBC)</td>
<td>W28</td>
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<td>SF+SU reduced - CV Maintenance (TBC)</td>
<td>W46</td>
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<td>27-Nov-20</td>
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## LHC8

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<td>UW, UA, RE - CV Maintenance</td>
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<td>20-May-20</td>
<td>30-Jun-20</td>
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<td>SF+SU reduced - CV Maintenance</td>
<td>W42</td>
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<td>30-Oct-20</td>
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<td>W42</td>
<td>12-Oct-20</td>
<td>30-Oct-20</td>
<td>3 wks</td>
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LHC Access Constraint overview
W38-W39, 2019
### Week 38 2019 - P1 + Sector 1-2 + P2 + Sector 2-3

#### Week 38 - September

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<tr>
<th>Monday 16</th>
<th>Tuesday 17</th>
<th>Wednesday 18</th>
<th>Thursday 19</th>
<th>Friday 20</th>
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<td>0 7 8 9 10 11 12 13 14 15 16 17 18</td>
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#### Point 1

- **IT1R**
- **LSS1R**
- **PM18**
- **Arc 12**
- **Ti2**
- **LSS2L**

**WCC Hose replacement works in RR13**

#### Point 2

- **IT2L**

#### Sector 12

- **IT2R**
- **LSS2R**
- **Arc 23**
- **PM32**
- **LSS3L**

**ELQA DISMAC**

**remove scaffolding, close low level platform in RB24 after open end**
### Week 38 2019 - P3 + Sector 3-4 + P4 + Sector 4-5

#### Week 38 - September

<table>
<thead>
<tr>
<th>Monday 16</th>
<th>Night</th>
<th>Tuesday 17</th>
<th>Night</th>
<th>Wednesday 18</th>
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<tr>
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<td><strong>Arc 34</strong></td>
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<td><strong>LSS4L</strong></td>
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<tr>
<td><strong>LSS4R</strong></td>
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<td><strong>Arc 45</strong></td>
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<td><strong>LSS5L</strong></td>
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17-Sep-2019
Week 38 2019 - P5 + Sector 5-6 + P6 + Sector 6-7

Week 38 - September

- **Monday 16**
- **Tuesday 17**
- **Wednesday 18**
- **Thursday 19**
- **Friday 20**

### Point 5
- **IT5R**
- **LS5R**
- **Arc 56**
- **LSS6L**

### Secteur 56
- **Scaffold in Tunnel**
- **WCC Hose replacement**
- **ELQA DISMAC**

### Point 6

### Secteur 67
- **LSS6R**
- **Arc 67**
- **LSS7L**

**EN-EL Maintenance P6+ AUG TEST**
### Week 38 2019 - P7 + Sector 7-8 + P8 + Sector 8-1

#### Week 38 - September

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<th>Monday 16</th>
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#### Sector 78
- **LSS7R**
- **Arc 78**
- **LSS8L**
- **IT8L**

**Point 7**

#### Sector 81
- **IT8R**
- **LSS8R**
- **Ti8**
- **Arc 81**
- **LSS1L**
- **IT1L**

**Point 8**

**Notes:**
- Pulling cable campaign LH7UDT0-CL201, HL7HIL0-CC02
- MEDIA NETHERLANDS
- WCC Hose replacement works in RR13

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17-Sep-2019
Week 39 2019 - P1 + Sector 1-2 + P2 + Sector 2-3
Week 39 2019 - P3 + Sector 3-4 + P4 + Sector 4-5

Week 39 - September

<table>
<thead>
<tr>
<th>Monday 23</th>
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<th>Wednesday 25</th>
<th>Thursday 26</th>
<th>Friday 27</th>
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</table>

- **Point 3**
- **Secteur 34**
  - LSS3R
  - Arc 34
  - LSS4L
    - Survey alignment secondary components

- **Point 4**

- **Secteur 45**
  - Cryo RFR
  - LSS4R
  - Arc 45
  - LSS5L
    - Survey alignment secondary components
  - IT5L
    - Survey alignment Q6-Q7 including vacuum supports

17-Sep-2019
Week 39 2019 - P5 + Sector 5-6 + P6 + Sector 6-7

Point 5
- Pulling cable campaign in the PIT PM56 LH5H10-CC08

Secteur 56
- Survey alignment Q5-06-07 including vacuum slits
- WCC scaffold removal
- Racks transport and installation RR57

Point 6

Secteur 67
- LSS6R
- Arc 67
- LSS7L
Week 39 2019 - P7 + Sector 7-8 + P8 + Sector 8-1

EN-EL Maintenance P7+ AUG TEST

WCC Hose replacement works in RR13
Next meetings

https://indico.cern.ch/category/7200/

W39: 24th September LS2 coordination meeting #51
  - Safety point
  - LS2 planning overview

W40: 1st October LS2 coordination meeting #52
  - Safety point
  - LS2 DETAILED planning

LS2 days: 8th and 9th October 2019
LHC LS2 OSS Organisation
LHC-LS2 Coordination

Activity Technical Coordinator

- DISMAC (Dipole diodes consolidation & Magnets replacement)
  J.-Ph. Tock

- Connexion cryostat full assembly in LSS2
  D. Schoerling

- 11T Dipole Full Assembly in LHC P7
  D. Schoerling

- LIU-TCDIL in Ti2&Ti8
  F.X.-Nuiry

- Water cooled cables replacement
  B. Gutierrez

- TDE consolidation
  D. Grenier

Facility Coordinators

- Collimators
  (TCLIA in LSS2, TCSPM in LSS7)
  I. Lamas

- Installation of general services in the UPR
  L. Tavian

- Consolidation of the LHC access system
  T. Hakulinen

- New TANB in LSS8
  F. Sanchez

- New TDIS in L2 and R8
  A. Perillo

- Support for projects:
  - DISMAC
  - HL-LHC UPR

ERS

- LHC 1
  John Etheridge

- LHC 2 & 3 & 6
  Michel Bonnet

- LHC 4 & 5
  Emmanuel Paulat

- LHC 7 & 8
  Cyrille Bedel

Integration

- Frederic Galleazzi
- Jean Pierre Corso

Configuration / Layout DB

- Anne-Laure Perrot

Support for projects:
- DISMAC
- HL-LHC UPR

LHC Piquet phone ➔ 161669

INDICO LHC-LS2 Coordination

LHC LS2 coordination website

CERN

17-Sep-2019

LHC coordination meeting
LHC-LS2: cryogenics FULL lock out completed

17-Sep-2019

LHC coordination meeting
LHC-LS2 MsProject Planning Breakdown Structure

LHC MASTER Schedule

- **LHC_LS2_GENERAL_EDMS1817804**
  - LHC LS2 Main Frame
  - Service Areas + RRrs planning
  - Arcs planning

- **LHC_LS2_LSS_EDMS2000365**
  - LHC LSS planning
  - WCC Project detailed planning
  - Collimators
  - Cabling campaign
  - HL-LHC

- **LHC_LS2_TI2-TI8_EDMS2030625**
  - LHC TI2-TI8 planning
  - LIU-LHC: TCDIL installation planning

- **LHC_LS2_DISMAC_EDMS2020179**
  - DISMAC detailed planning
  - Magnet exchange camapign detailed planning
  - HL-LHC: WP11 11T

→ Planning Baseline in EDMS on week 48 (end November 2018)
LHC-LS2 Linear & Constraint Planning

LHC LS2 GENERAL

LHC LS2 LSS

LHC LS2 TI2-TI8

LHC LS2 DISMAC

17-Sep-2019

LHC coordination meeting