Review of the EYETS Collimators on going Activities and Installation Plan

Collimation Upgrade Specification Meeting #80
9th December, 2016

I. Lamas Garcia, on behalf of the Collimation Team
Scope of the Presentation

- Surface Preparation Overview
- TCPP
- TCTW#1
- TCTW#2
- TCPCH
- TCPCV
- TCSPM Proto
- Final Remarks
Surface preparation overview (b.272)

- Cradle assembly depending on collimator orientation
- Collimator Reception and Inspection
- Micro-switches Calibration
- Torque Test
- Turning Collimator
- Heating Jackets Installation
- Rigid Cooling Pipes Installation
- Assembly on Cradle
- Flexible Cooling Pipes Installation
- Water Pressure Test
- LVDT, Cabling and Torque Test
- RF Fingers
- Alignment
- BPM Tests
- Impedance Measurements
- Bake-out
- Acceptance
• Current Status: Baked-out

• Next step: Impedance Measurements to be performed right before installation 2nd of February

• Installation on the 3rd of February

• RfO on the 2nd of March
Current Status: Aligned

Next steps:
- Impedance Measurements on Monday 12
- BPM and Wire tests on Tuesday 13
- Transport to b.113 on Wednesday 14
- I2PS (LVDT) installation and tests with wire under current on W4 and W5. TBD.

Installation on the 7th of February

RfO on the 8th of March
- Current Status: Being Aligned
- Next steps:
  - BPM and Wire tests on Tuesday 13
  - Transport to b.113 on Wednesday 14
  - I2PS (LVDT) installation and tests with wire under current before collimator installation. TBD.
- Installation on the 28th of February
- RfO on the 29th of March
TCPCH

- **Current Status: Impedance Measurement 09/02**

- **Next steps:**
  - Switch position fine tuning 09/02
  - Fibers attachment 09/02
  - Test PT100 09/02
  - Closing up tank 12/02
  - Transport to b.113 on Tuesday 13

- **Installation on the 10th of February**

- **RfO on the 17th of March**

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<table>
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<tr>
<th>TCPCH:ASR.7.B2 (Primary Crystal Collimator)</th>
<th>I Lamas</th>
<th>5.2 wks</th>
<th>09/02/17 08:00</th>
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<tr>
<td>Mechanical works</td>
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<td>1 day</td>
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<tr>
<td>Beam Instrumentation dismantling</td>
<td>G Schneider</td>
<td>1 day</td>
<td>09/02/17 08:00</td>
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<tr>
<td>Transport (from pit to tunnel)</td>
<td>S Pelletier</td>
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<td>NEG activation</td>
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<td>Cabling+ Rack Installation</td>
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<td>Commissioning</td>
<td>I Lamas</td>
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<td>10/03/17 08:00</td>
</tr>
</tbody>
</table>
Current Status: Assembly piezo on rotational stage

Next steps:
- Test piezo 09/02
- Install rotational stage in goniometer 09/02
- Tune and characterize parasitic angles 09/02
- Adjust beam pipe switches 09/02
- Tight flanges 12/02
- Install QM crystal 12/02
- Alignment 13/02
- Closing up tank 15/02
- Transport to b.113 on Thursday 15

Installation on the 17th of February

RfO on the 24th of March
TCSPM proto

- Current Status: Assembly 2\textsuperscript{nd} jaw in the vacuum tank

- Next steps:
  - Metrology and Alignment
  - Torque Test
  - Welding of the Tank Cover
  - Torque Test
  - Transport to b. 272 on Friday 16

- Installation on the 24\textsuperscript{th} of February

- RfO on the 27\textsuperscript{th} of March
Final Remarks

- All surface activities are right on schedule
- EYETS plan is validated and confirmed
- Little extra time for commissioning during EYETS
- All ECRs are approved
  - TCTW consignation technical note is on going (A. Rossi)
- RP storage space is confirmed
- Working Dose Plan is on circulation
- Lay-out Data Base is on going
- MTF structure is ongoing
- Operation Acceptance sheet to be created
- Working Orders/TRECs to be created
- Impacts to be created
Thank you!

And a big thanks to all the teams involved:

EN-STI, EN-ACE, EN-HE, EN-MEF, EN-MME, BE-ABP, BE-BI, BE-RF, TE-VSC, etc.