DOM Assembly

Status of IPHC – Strasbourg 2019-09-18
During the last meeting, I reported some trouble with SFP and FPGA temperature. Now, the temperature of the room is below 25°, and all the SFP and FPGA temperatures are OK.

2 NCRs are really complex
2 NCRs about PMTs disconnected
2 complex NCRs

NCR 2019-133 : DOM 483 doesn’t boot anymore (first abnormal power consumption has been observed during acceptance test)
• A NBR (Non Conformance Review Board) process is launched. First meeting 30/09/2019 with Miles, Daniele, Diego Real, Tommaso, Antonio d'Amico, Giorgos, Ronald, Safia.

NCR 2019-189 : AHRS test failed for DOM469, DOM481 and DOM482 (only one NCR opened for those DOMs because they would belong to the same DU)
• Different tests performed to find the optimal position of the DOM according to the north. The tests always failed.
• Test always succeed for all others DOMs tested (468, 470, 480, 484 and 485)
• Influence of the environment (iron) ? In that case, why the test succeed for some DOMs ? For the moment, we have not better place with less iron.
• Try to performed new calibration ? If there is to much iron in our environment, it will be a problem.

<table>
<thead>
<tr>
<th>DOM</th>
<th>469</th>
<th>481</th>
<th>482</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yaw shift (&lt;20°)</td>
<td>-1,7°</td>
<td>-0,9°</td>
<td>15,6°</td>
</tr>
<tr>
<td>Residual 1 (&lt;3,5°)</td>
<td>6,7°</td>
<td>-2,6°</td>
<td>5,0°</td>
</tr>
<tr>
<td>Residual 2 (&lt;3,5°)</td>
<td>-7,3°</td>
<td>4,5°</td>
<td>4,2°</td>
</tr>
<tr>
<td>Residual 3 (&lt;3,5°)</td>
<td>-8,6°</td>
<td>1,2°</td>
<td>-4,3°</td>
</tr>
<tr>
<td>Residual 4 (&lt;3,5°)</td>
<td>9,9°</td>
<td>-3,0°</td>
<td>-4,9°</td>
</tr>
</tbody>
</table>

Safia Kihel –DOM meeting September 18th, 2019
2 new NCRs : PMT disconnected

**NCR 2019-191** : PMT channel 25 of DOM481 is no longer connected

**NCR 2019-192** : PMT channel 29 of DOM482 is no longer connected

- Everything was OK during the functional test.

- We suppose that it happened at the DOM closure. We will pay further attention during that step.

- **Should we suggest the closure of those NCRs?**