<u>Reports</u> | <u>Attachments (2)</u>

Get DR

Discrepancy Report Number: 12026

Traveler Title:

464441 - D - HL-LHC AUP Coil Interface Traveler	
<u>Step No.:</u>	<u>Serial Number(s):</u>
4.2 - Responsible Authority must specify which cable should be used for preparing the cable reels. Record the	<u>QXFA-CL-125 - 0</u>
Cable Reel Serial Number used and the total length of the cable provided by the vendor.	

Discrepancy Description:

During cable preparation, it was found that there is some stain on the surface of the beginning of 6.8 m long cable from Blue/Red marked end (see the pictures in the attachment), which looks like the copper oxidation.

The techs also noticed a couple marks at 162 meters from Blue/Red end, through the insulation, however the marks are barely visible without shining a light on the cable.

Miao Yu - 6/23/2020

Cause of Nonconformance:

Cable 1132 was made in the summer (fabricated at LBNL in 2019/06/11, braided at NEWT 2019/07/30 - 2019/08/04, and arrived at FNAL on 2019/08/22) and stored for 10 months at FNAL IB3 floor equipped with A/C and humidity control.

The accelerator data shows that there was fairly high humidity at NEWT during the insulation process (around 60-70%). It is likely that the nonconformance was caused during the cable insulating process at the vendor site or during the cable shipment under high humidity environment. Miao Yu - 6/23/2020

Disposition: - Awaiting Disposition (Giorgio Ambrosio)

Corrective Action to Prevent Recurrence:

Identified problem area:

O Material

Reviewed by:

O Method

O Machine

Date:

O Measurement

O Manpower