CM-01 Electrical Checkout

Anthony Lake
Rodger Bossert
Thomas Strauss
Drawing
CM-01 – Pre-production coils with too short wiring
(03 by a lot, some did not even go to plug location)

A end – MQXFA04
• Wires that are spliced in the plug
  • 8 Heaters
    • YT122B, YT122A, YT123B, YT123A, YT124B, YT124A, YT121B, YT121A,
  • 18 VT
    • EE153, EE152, EE151, EE144, EE143, EE142, EE141, EE134, EE133, EE132, EE131, EE124, EE123, EE122, EE121, EE114, EE113, EE112

B end – MQXFA03 (MTF side)
• Wires that are spliced in the plug
  • 8 VT
    • EE244, EE253, EE214, EE222, EE251, EE213, EE221, EE252
  • Wires that are already spliced on the skirt
    • 9 VT
      • EE224, EE243, EE232, EE223, EE231, EE242, EE233, EE234, EE241
      • 16 Heaters

Heaters are spliced on the Return End to complete circuit
Splice on skirt
CM-01 – discontinuity

A end – MQXFA04

• Wires that are spliced in the plug
  • YT122B, YT122A, YT123B, YT123A, YT124B, YT124A, YT121B, YT121A,
  • EE153, EE152, EE151, EE144, EE143, EE142, EE141, EE134, EE133, EE132, EE131, EE124, EE123, EE122, EE121, EE114, EE113, EE112

B end – MQXFA03

• Wires that are spliced in the plug
  • EE244, EE253, EE214, EE222, EE251, EE213, EE221, EE252
  • Wires that are already spliced on the skirt
  • EE224, EE243, EE232, EE223, EE231, EE242, EE233, EE234, EE241
Discussion

• After Pressure Test
  • Vittorio performs a measurement to determine fault location

• If in plug, repair possible after
  • Pressure Test – delay in Cryostat work
  • Cold Test – can cover if anything else happens to instrumentation

• If in capillary, replace all IFS and new splicing in plug
  • Problem with capillary pull?
  • How/When did it break?
  • Make new IFS to test?

• If on skirt...
  • Location was with strain relief and not touched