

CDC Assembly Tests:

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This document summarizes all the tests that will be performed during the assembly of the CDC. Until the tubes are inserted into the CDC frame, the tests are all "go-no-go" resulting in the part being kept or rejected.

- All donut and feedthru parts will have all IDs and ODs checked with *go-no-go gauges. Nothing is recorded.*
- During straw selection, straws are rolled on an optical bench to assure that they are not bowed by more than a couple of mm. *Nothing is recorded.*
- After gluing in of the aluminum donut, an electrical connectivity check is made between the donut and the aluminized straw surface. *Nothing is recorded.*
- After stringing of a wire, electrical connectivity checks are performed between the two crimp pins. *Nothing is recorded.*
- After stringing of a wire, electrical isolation is checked between the lower crimp pin and the aluminum endplate. *Nothing is recorded.*
- After sufficient wires have been strung, wire tension measurements are performed on the wires. *The results are recorded in a spread sheet that indexes both the layer number and wire number in the layer.*