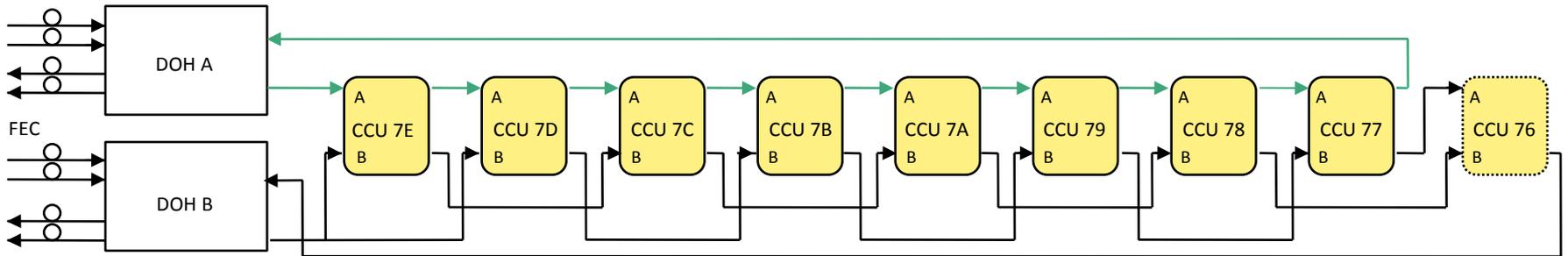


CCU redundancy testing



- 1 FEC (with the connected ring) controls $\frac{1}{4}$ of the detector \rightarrow need high reliability \rightarrow built in redundancy system:
 - 2 independent data paths, 2 input ports (A,B) and 2 output ports (A,B)
- Normal operation: Ring connected on DOH A
- Failure of CCU n: switch CCU n-1 output to B, CCU n+1 input to B
- Failure of DOH A: switch to DOH B with use of dummy CCU