

# Powering Interlock Zones

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Powering will be commissioned for stretches of the machine

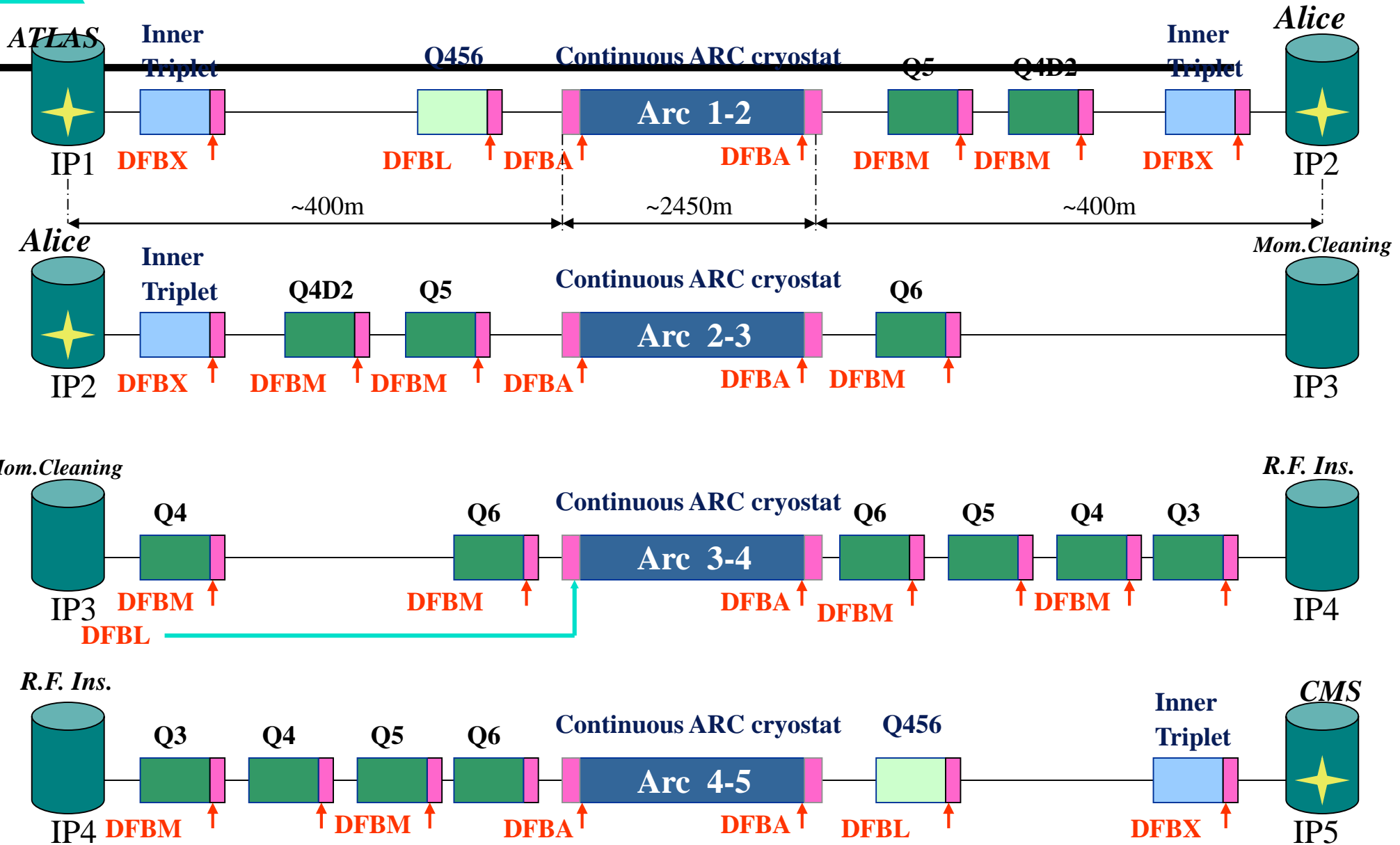
- long arc cryostats
- triplet cryostats
- several other cryostats - suggestion by B.Puccio

Questions

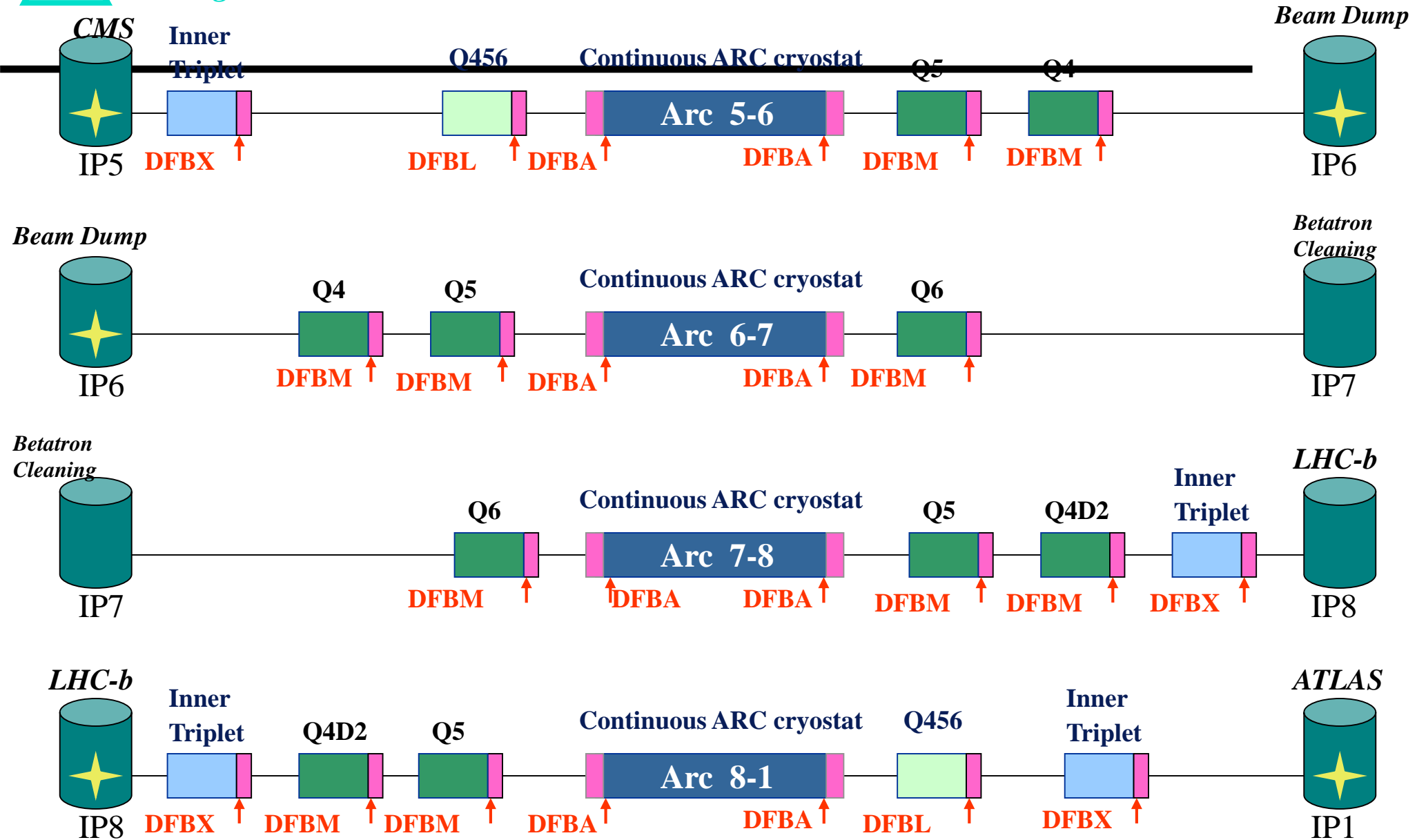
- Powering Interlock Zones should match access zones
- What about cryo OK for the zones?
- Naming to be reconsidered

 *Not a scale drawing!*

The 4 first sectors:



! *Not a scale drawing!*  
 The next sectors:



# Conclusions about the Powering Zones

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- 1 Powering Zone  $\Leftrightarrow$  1 Power Permit Controller  
( 2 for a long arc )
- Easier to control the powering:
  - ◆ one "green light" from the Cryo. system
  - ◆ one "green light" from the Quench system
  - ◆ one "green light" from the Access system
- by reducing number of Power Permit Controller  
(  $\sim$  36 P.P.C. will be used to monitor all the circuits  
attached to the 44 cryostats via 52 DFBs)
  - ◆ maintainability  $\nearrow$  and cost  $\searrow$
- Open question: what about the warm magnets?  
dedicated protection?  
or be included in the nearest Powering zone?