

Single-Tunnel CF Design

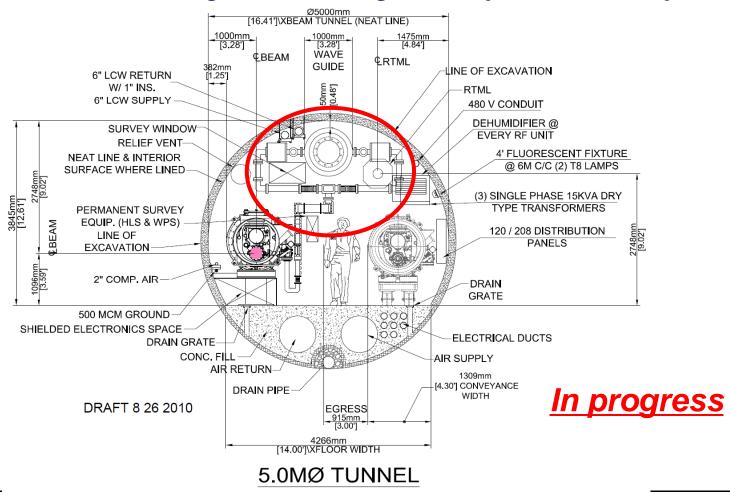
A. Enomoto, J. Osborne, and V. Kuchler

Design Status of Single Tunnel CF design



Americas Regional Design (KCS)

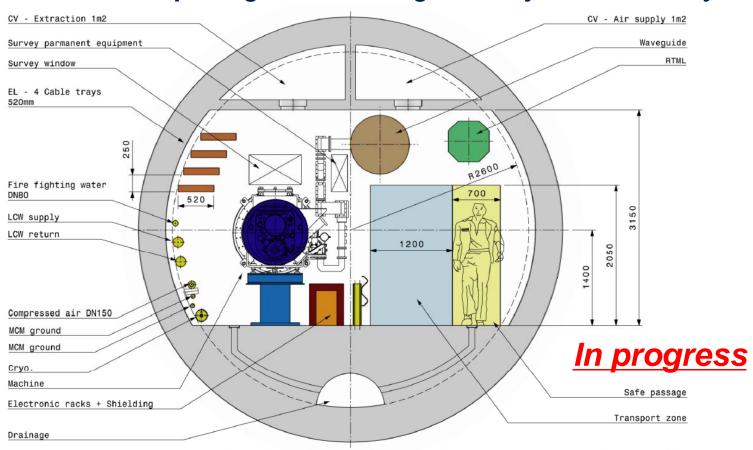
Americas team leads single-tunnel design with klystron cluster system.





European Regional Design (KCS)

European team develops single-tunnel design with klystron cluster system.



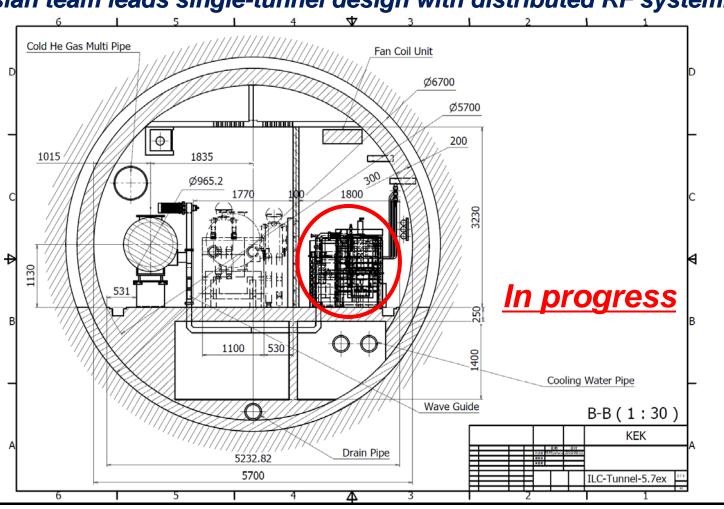
ILC - Typical Cross Section - Diameter 5200mm - Scale 1:25 (A3)

Cross section for Europe (CERN) 5.2m diameter for Kly Cluster



Asian Regional Design (DRFS)

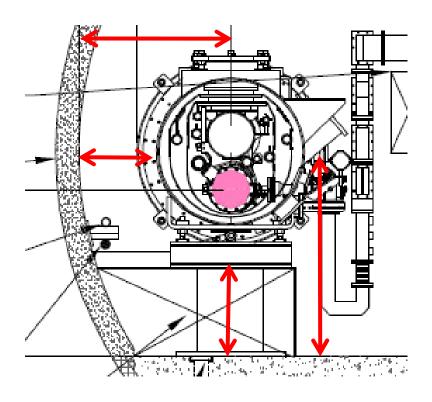
Asian team leads single-tunnel design with distributed RF system.



Boundary conditions for HLRF discussions from CF view points



Cryomodule positioning

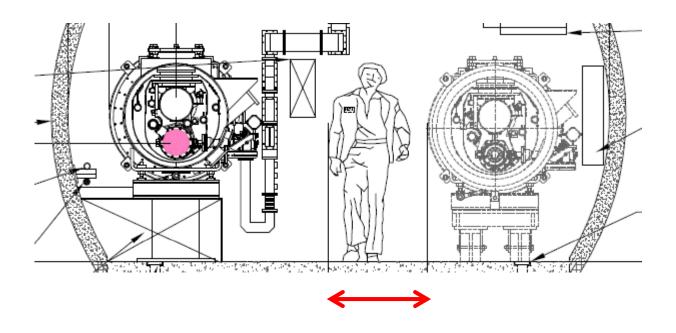


The Cryomodules and other floor standing components are placed on short stands mounted to a concrete floor. The beam is centered 1.1 meters above the floor and 0.8 meters away from the wall, which is considered sufficient to allow for cryomodule installation (welding)

(RDR III-213)



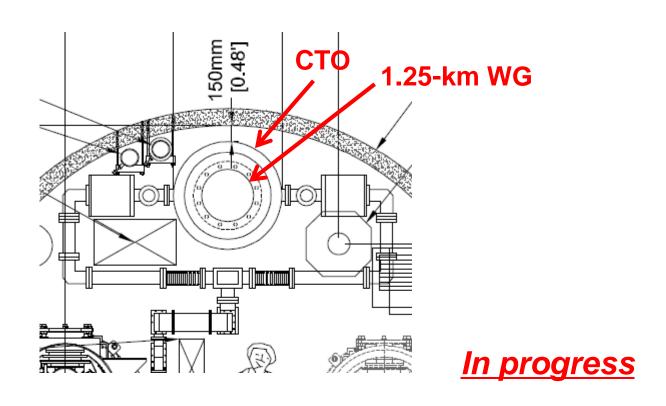
Safety Clearance



(RDR III-213)

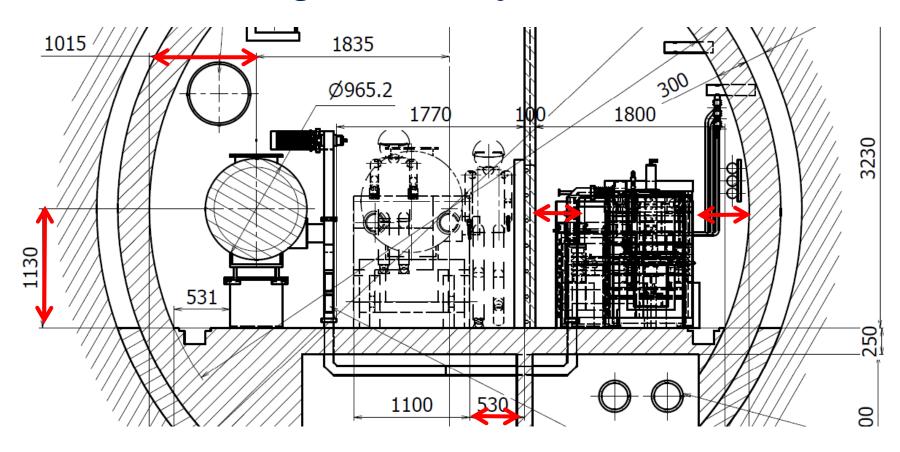


KCS long-distance WG and RF power tap-off





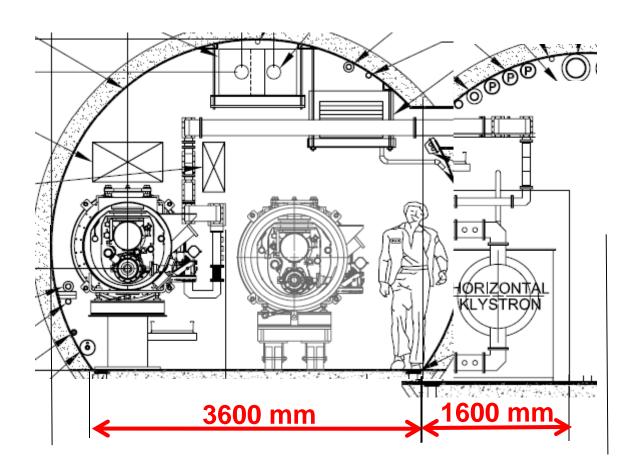
DRFS design boundary



Single-Tunnel Design with RDR RF Units



Single-Tunnel Design with RDR RF unit



In progress



Summary



<u>Summary</u>

- (1) Single-tunnel design with KCS/DRFS is underway...
- (2) Consistent boundary conditions from both technical group and CFS criteria should be discussed at BAW.
- (3) Single-tunnel design with RDR RF unit is under preparation to compare with KCS and DRFS.