



Cryostat Assembly Status Update

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September 17, 2018

CERN and FNAL personnel visited the cryostat assembly tooling vendor last week.



The vendor provided several documents and a design status update.

Conceptual Design
(Technical and
Operation Description)
and Functional & Load
Test Plan for both
systems (CATSF and
CATSC)

ZTS VVU KOSICE a.s.	CERN
 The HL-LHC project	Related CERN document: Technical Description Project Document Ref: LHC-IND-AMC-14001 EDMS Document No: 1835811 Title: IT-4132/TE/HL-LHC
CATS PROJECT CONCEPTUAL DESIGN	
CRYOMAGNET ASSEMBLY TOOLING SET_FERMILAB (CATSF)	
THE CATSF TECHNICAL AND OPERATION DESCRIPTION	
Prepared by: Dusan Cail Martin Kucinsky Peter Tzac Pavel Malachovsky Erik Prada	Project Responsible engineer Design Responsible engineer Mechanical Design engineer Mechanical Design engineer Mechanical Design engineer
Approved by: Ondrej Simko Juraj Orth	Electronics Systems Division director Mechanical Engineering Division Director
Initial release: 28 August 2018	
Last modification: 28 August 2018	
Archiving date: document in process	
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ZTS VVU KOSICE a.s.	The CATSC Functional and Load Test Plan	CERN
 The HL-LHC project	Related CERN document: Technical Description Project Document Ref: LHC-IND-AMC-14001 EDMS Document No: 1835811 Title: IT-4132/TE/HL-LHC	
CATS PROJECT		
CRYOMAGNET ASSEMBLY TOOLING SET_FERMILAB (CATSF)		
THE CATSF FUNCTIONAL & LOAD TEST PLAN		
Prepared by: Dusan Cail Matej Jobc	Project Responsible Engineer Mechanical Engineering Student	
Approved by: Ondrej Simko Juraj Orth	Electronics Systems Division director Mechanical Engineering Division Director	
Initial release: 31 August 2018		
Last modification: 13 September 2018		
Archiving date: document in process		
ZTS VVU KOSICE a.s., Juma trieda 95, 041 24 Kosice, SLOVAKIA Page 1 / 33		

Design details remain to be finalized, especially related to the ability to cryostat and de-cryostat both now and old magnets.

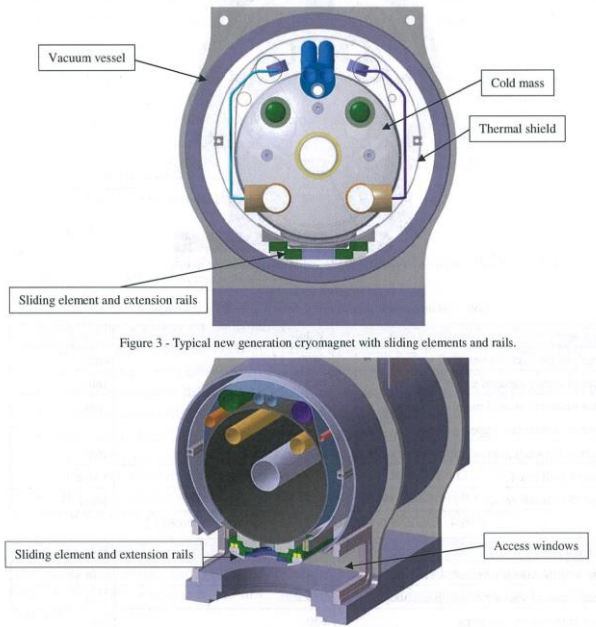
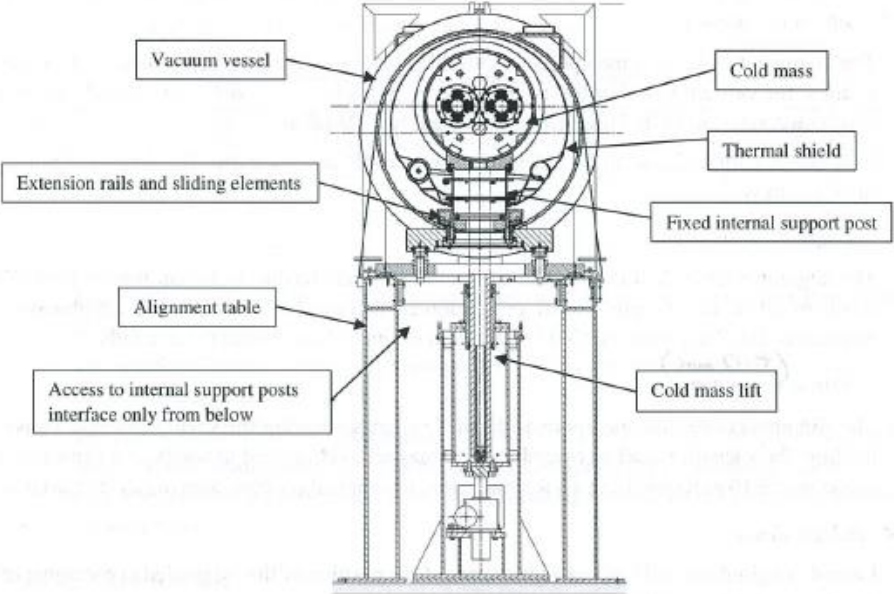


Figure 3 - Typical new generation cryomagnet with sliding elements and rails.

Schedule was also discussed.

May 31, 2019: Fermilab delivery

- Vendor will not be able to meet this deadline.

August 31, 2019: Latest Fermilab delivery as per project schedule

- Unclear if vendor can meet this deadline.
- Vendor will submit a proposed schedule amendment to CERN.