



Component procurement plan - CERN

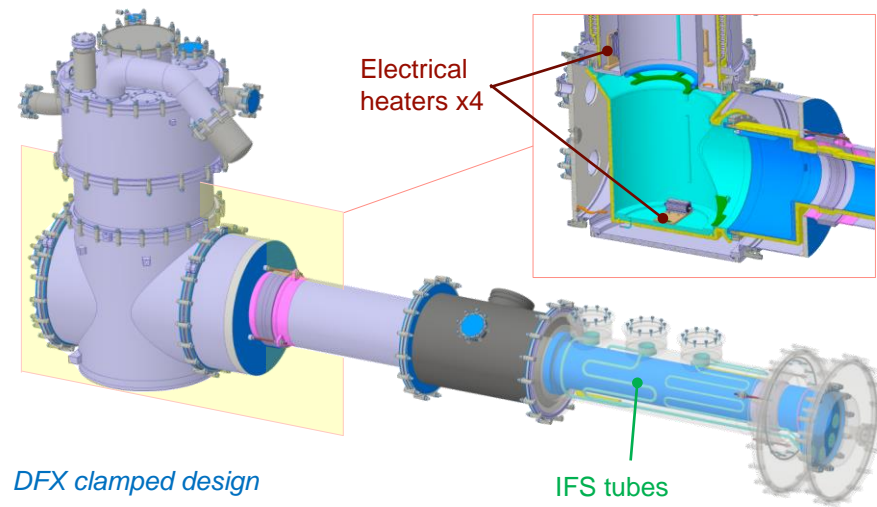
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3 March 2020

Production Readiness Review of the DFX

Items supplied by CERN

Assembly in UK (DFX clamped design)

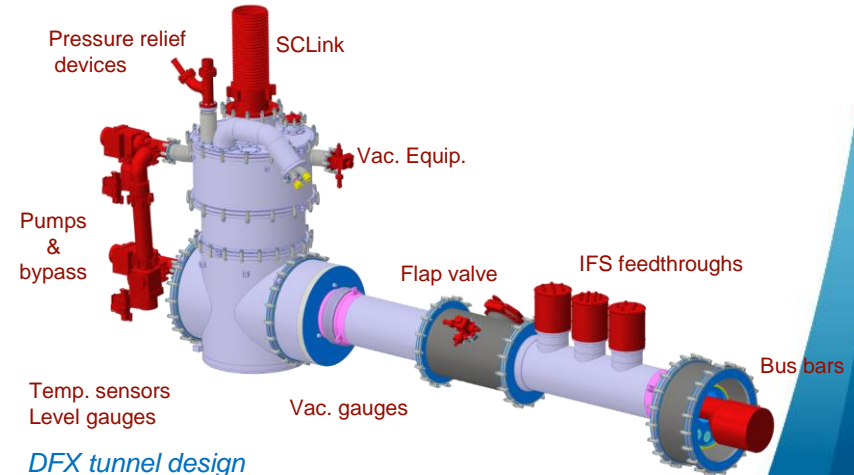
- All items not accessible at CERN
- All items needed part of NoBo qualification
- Items :
 - IFS inner tubes
 - Electrical Heaters



DFX clamped design

Assembly at CERN (DFX tunnel design)

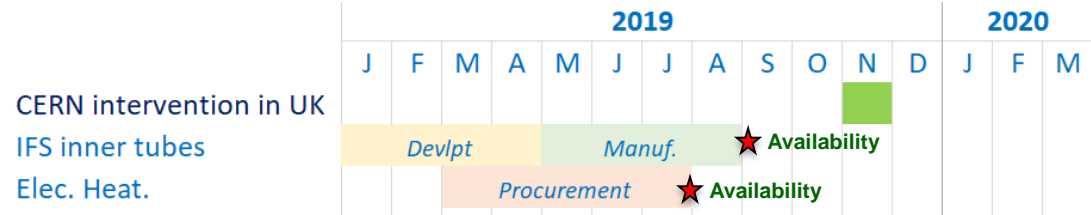
- Vacuum equipment
- IFS feedthroughs
- Pressure relief devices
- Cryogenic instrumentation



DFX tunnel design

Procurement plan (schedule to be adapted)

- IFS development in progress
- Electrical heaters to be procured
- X margin before CERN intervention in UK



Item	Assembly Location	DFX Sub-assembly	Assembly date	Procurement Source : CERN	Installed by
What	Where	Where	When	Who	How
IFS inner tubes	UK	Horizontal section Outer helium vessel	Q3-2020	TE-MSC	TE-MSC
Electrical heaters	UK	Vertical section Inner helium vessel	Q3-2020	TE-CRG	TE-MSC
Vacuum equipment <i>Pumps & Gauges</i>	CERN	Vacuum vessels Outer envelope	Q1-2021	TE-VSC	TE-MSC
IFS feedthroughs	CERN	Vacuum vessel Outer envelope	Q1-2021	TE-MSC	TE-MSC
Pressure relief devices <i>Burst disc, Rated valve Flap valve, Relief plate</i>	CERN	DFX outer envelope	Q1-2021	TE-CRG TE-MSC TE-VSC	TE-MSC
Cryo. instrumentation <i>Temperature sensors Level gauges</i>	CERN	Helium vessel outer envelope Vacuum vessel outer envelope	Q1-2021	TE-CRG	TE-MSC

Summary

- Most of the CERN supplied items installed at CERN
- Items required for NoBo qualification and non accessible items are installed in UK by CERN personnel
- Procurement plan defined