

Managed by Fermi Research Alliance, LLC for the U.S. Department of Energy Office of Science

CM&Cryo Meeting

S. Feher 01/25/2018

Agenda

- MQXFS1d shell welding activities status
- Bus bar/expansion loop mock up status
- Bus bar design status
- Q1/Q3 CM and Cryostat interface specifications status
- Cryostat vacuum vessel spec. review (US safety aspects)
- AOB

Tony Rodger Rodger Herve/Delio Roger



Schedule

Task Name 👻	- Start -		2019					2020			2021
		Finish 👻	Jul	1st Qu Oct	Jarter Jan	Apr	Jul	1st Qu Oct	Jan	Apr Jul	1st C Oct
FNAL Cryo-Assembly Fabrication	Fri 10/5/18	Tue 7/9/24						1			1
Prototype	Fri 10/5/18	Thu 5/14/20						i		-	i i
CERN Cold Mass Parts Delivered By	Fri 10/5/18	Fri 10/5/18	1	10/5	/18			ł			
LMQXFA-P Assembly	Mon 4/1/19	Wed 9/25/19				9		1			
CERN Cryostat Tooling and Kit Delivered By	Mon 5/6/19	Mon 5/6/19				5/6/3	/6/19	9			
LMQXFA-P Cryostating	Thu 9/26/19	Tue 12/31/19		i i				ļ.			i.
Design Adjustment Completed	Thu 5/14/20	Thu 5/14/20						1		5/14/20	ł
▲ Pre-Series	Thu 10/24/19	Tue 10/6/20		1					_		Ċ.
CERN Cold Mass Parts (5 sets) Delivered By	Thu 10/24/19	Thu 10/24/19						\$ 10,	/24/19		
Assembly LMQXFA-1	Fri 5/15/20	Mon 8/3/20						i -			i.
CERN Cryostat Kits (5 sets) Delivered By	Fri 3/13/20	Fri 3/13/20						1	•	3/13/20	
LMQXFA-1 Cryostating	Tue 8/4/20	Tue 10/6/20						1		-	
A Series Production	Wed 10/7/20	Tue 7/9/24						1			-

- Important Milestones for Stand 4 Test facility:
 - Interface specifications to be able to make the relevant shuffling unit: January, 2018



AOB

- Samples for welding and welder qualification tests
 - Plate for the longitudinal weld. We probably need to make ~10 meters of weld to qualify the process and 4 welders. How long and wide and how many?
 - Beam tube and weld flanges to qualify the beam tube weld.
 - Any other weld to be qualified?
- Q3 end assembly
 - We need at least one to be able to use at our test stand
 - Can we help assembly the Q3 end units? In this case we do not need to remove the end units after the test
- Cold Mass FRS needs to be modified and re-released
- How are we doing with the Cryostat FRS?

