Remaining tasks for LCLS-II Cryomodule testing

Kevin Jordan 7/31/2018			
System	Task	Group Responsible	Notes
Installation / Pipe fitting / Welding	PRIOR to testing		
Hansierinie	Confirm/Prep both transferline sections have proper weld prep	Cryo	
	Locate and affix to floor short piece	Installation	
	Locate and affix to floor "L" piece	Installation	
	Position/align both sections with ruler and level bar	Cryo	
	Cut, prep, & weld field fit joints per weld spec - w/M. Martin advice	Cryo	
	Leak check innner connections prior to SI wrap	Cryo/SRF?	
	Cut/prep & weld clam shells	Cryo	
Warm Helium Piping			
	Prep, mount, and weld sections of warm piping per spec & drawings	Cryo	Much of this is to be done after the cryo-can is located & grouted
Trolley Installation for Cryo-Can Bellow	s		
	Fabricate "I" beam & weld to spec	Machine Shop	
	Procure Trolley w/Chain fall	Installation	
	Locate & Drill Holes	Installation	
	Install "I" Beam & trolley	Installation	
Cura Can	Load test	Installation/?	
Cryo-Can	Development of the second of t	Collecti	Francisco de la Companya del Companya de la Companya del Companya de la Companya
	Remove/install equipment that is too tall for cable tray/waveguide Confirm/Prep the weld joints have proper weld prep	Gubeli Cryo	Ensure that it can be moved into place w/o hight restrictions like relief stack
	Locate Cryo-can per surveyed drill locations	Installation	
	Confirm alignment to field fit transferline	Survey/Gubeli	
	Drill, mount/level can, grout base plate	Installation	
	Cut to fit, weld & leak check inner Helium piping	Cryo	
	Wrap SI insulation	Cryo/SRF	
	Cut to fit & weld outer clam shells	Cryo	
Clean Room Assembly			
	Unpack & assemble	Electricians	This can be done once the cryo-Can has been moved into place
	Install AC power and lights	Electricians	
Work to move, locate, and join 2 c	ryomodules prior to testing		
Movement			
	Bolt on wheels	SRF	Installation crew can assist if required
	Arrange for crane at LERF to Lower/Raise CMs	Installation	
	Move to/from Test Lab	SRF	
	Wheel in/out LERF Locate/position CMs	SFR/Installation SFR/Survey	This will likely be done wioth plumb bobs
	Locate/position civis	3FR/Survey	This will likely be done witch plants bobs
Cleanroom beam tube connection		00544	
	Prepare & execute center beam tube connections in cleam room per procedures Insulate	SRF/Vac SRF	This is the effort to join two modules together
Cryo-Can & Center Bellows	* these details are TBD *		
	Affix the bellows to cart	Installation (?)	The cryo-can bellows may arrive on the end of the CM - TBD
	Position cryo-can bellows	SRF	The cart enables ease of installation in the joining region
	Secure cryo-can bellows	SRF	

Affix the bellows to cart Position cryo-can bellows Secure cryo-can bellows Position center bellows Secure center bellows Installation (?) SRF SRF

These connect the vacuum space of the two CMs together

Cooldown

Follow Mike Drury's proceedures