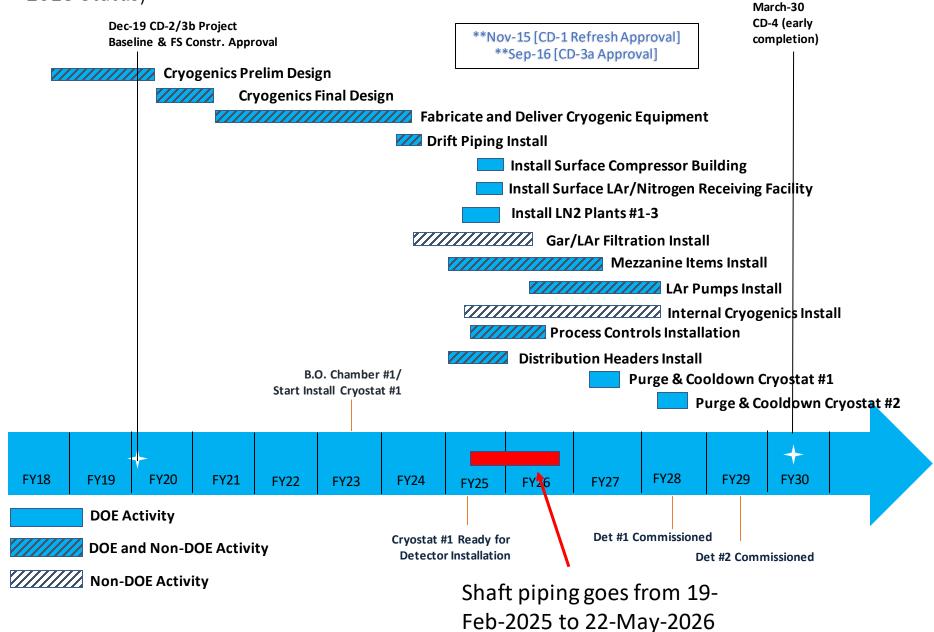
## Sequencing and scheduling discussions at SURF - Cryo

## Cryogenics Infrastructure – Cryogenic Equipment Summary Overview (Based on Sept 2018 Status)



## Cryogenic schedule logic

		·	<del>-</del>	I			+			+
	Schedule I	ogic of Cryo	genics supp	orting Detec	ctors #1, #2.					
Cryostat #1.										
	enics F-F with	Membrane Cryo	stat Completio	n. May end up	being earlier de	pending on th	ne installation se	equence: when	is the floor dor	ne??
					es 1 mo before o					
Distribution P	ping on Mezza	nine S-F with M	lezzanine Platf	orm. S-S with F	Proximity Cryoge	nics on Mezza	nine.			
					closing the TCO					
Cryostat #2.										
Internal Cryog	enics #2 F-F v	vith Membrane (	Cryostat Compl	etion #2. May	end up being ea	rlier depending	g on the installa	tion sequence:	when is the flo	or done?
Proxymity Cry	ogenics on Me	zzanine #2 S-F	with Proxymity	Cryogenics on	Mezzanine #1.					
Distribution Pi	ping on Mezza	nine #2 S-S wit	h Proximity Cry	ogenics on Me	zzanine #2 (S-F	with Proximity	Cryogenics on	Mezzanine #1)		
LAr Pumps #2	S-F with com	pletion of Part 1	of FD #2 insta	llation (before	closing the TCO	).				
Surface Faci										
		rs S-F with avai								
LAr/LN2 Rece	iving Facilities	on surface S-F	with availability	of CF on the	surface.					
Piping in the										
S-F with Bene	ficial Occupan	cy of Cavern #1	and CUC.							
CUC.				<b>_</b>	4					
				y of CUC (Smo	othing of fundin	g profile).				
		N2 Storage tank	S.							
	em units all in									
Distribution H	eaders + 7.5 m	no with Beneficia	Occupancy o	f CUC (Smooth	hing of funding p	profile).				
		Beneficial Occu								
		LAr Filtration #1								
		LAr Filtration #2		-	+				-	-
		LAr Filtration #3							-	-
				(also at same t	time as LAr Purif	ication #1).				
		LAr Purification								
		I Occupancy of					-			
		1 AND S-F with								
Regen #3-4 S	-r with Regen	#2 AND S-F wit	n LAr Purificati	on #2.						
I	I		1			I				