

Pre-requisite to Installation

- As soon as the bake-out oven is removed from the Central beam-pipe, we need to measure the position of the beam pipe with the PSI tool and Survey collars and flanges (1 day, currently scheduled for June 17th).
- After a. we can shim BPIX and FPIX to final position in the lab.
- Need to check electrical continuity/isolation of cables/power-supplies at PP0 with a load-box. This can be done at any time we have access to the bulk-head. Also can be done after hours. Requires ~4 hours per end. Time can be split in several small chunks. Should be placed in the shadow of other activities.

Installation sequence

		BPIX (Installation from -Z END)	FPIX		
		BMI/BPI - BMO/BPO	BPI/BPO (+Z END)	BMI/BMO (-Z END)	
ENZI	M 21	Install whole BPIX & cooling conn.& leak test			W 2 5
	T 22	left over, connections and start circulating cooling@+17C			
	W 23	check-out@+17C - Survey BPIX (both ends)			
	T 24	check-out@+17C			
	F 25	check-out@+17C		Prepare for installation (set table, lower cassette, etc.)	
	S 26	check-out@+17C			
	S 27	check-out@+17C, green light for FPIX installation			
W 26	M 28	check-out@+17C	Prepare for installation (set table, lower cassette, etc.)	Install BMI/BMO & cooling conn.& leak test	
	T 29	check-out@+17C	Install BPI/BPO & cooling conn.& leak test	left over, connections and start circulating cooling@+17C	
	W 30	check-out@+17C	left over, connections and start circulating cooling@+17C	check-out@+17C - Survey FPIX (-Z end)	
	T 1	check-out@+17C	check-out@+17C - Survey FPIX (+Z end)	check-out@+17C, green light for PLT/BCM installation	
JULY	F 2	check-out@+17C	check-out@+17C, green light for PLT/BCM installation	Install PLT/BCM, all connections and start check-out	W 2 6
	S 3	check-out@+17C	check-out@+17C	check-out FPIX @+17C, check-out PLT/BCM	
	S 4	check-out@+17C	check-out@+17C	check-out FPIX @+17C, check-out PLT/BCM	
	M 5	check-out@+17C	Install PLT/BCM, all connections and start check-out	Close Bluk-Head panels, ready to go cold, continue check-out@+17C	
	T 6	check-out@+17C	check-out FPIX @+17C, check-out PLT/BCM	check-out FPIX @+17C, check-out PLT/BCM	W 2 7
	W 7	check-out@+17C	Close Bluk-Head panels, ready to go cold	check-out FPIX @+17C, check-out PLT/BCM	
	T 8	Check readiness for cold operation, check interlocks, start lowering the temperature, check seal etc.			
	F 9	Chek-out at cold temperature			W 2 8
	S 10	Chek-out at cold temperature			
	S 11	Chek-out at cold temperature			
M 12	Chek-out at cold temperature, clean up Surkov frame, Ready to close CMS				
T 13	READY TO CLOSE CMS (check-out at cold temperature can continue)				
W 14				W 2 8	
T 15					
F 16					
S 17					
S 18					