

Module-0:

Cathode PD Electronics exchange ... and other components swap

5W-Update": What, Which, Where, When & Who

April 19, 2024 -

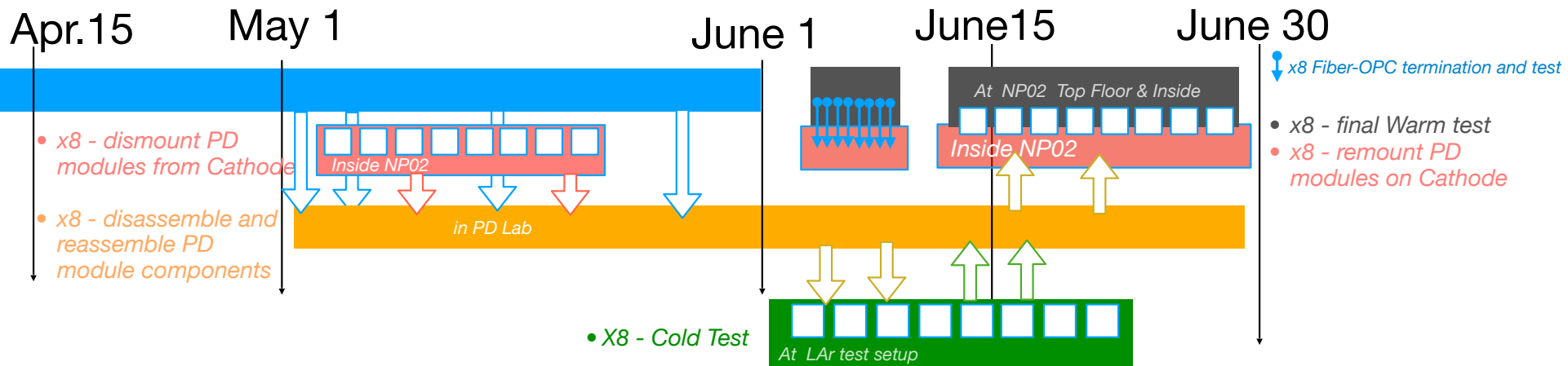
Modified Apr. 20, Apr. 23

Modified Apr.26

- x8 CE Boards production (*DCEM1.3.1 + DCDC card + 2LD-SoF Card + 2OPC-PoF Card*), assembly & test at IERC-FNAL
- x8 shield boxes fabrication
- x8 light leakage protection kits fabrication
- x8 WLS 5.5mm thick production
- x2 glass-substrates (non-dichroic) set (16+16 units) +
 - pTp coating
- x2 2OPC-PoF Card+enclosure (for test set-up's: PD Lab open Dewar, LAr Test Cryostat)
- Shipping to CERN

Approximative What, When & Where

TCO Closing (t.b.c)



- Remove 8 Cathode Modules (bridge in place) in NP02
- Replace PD Components (CE, WLS, dichroic)
- Test of PD Module w/ new Electronics Board in LAr
- NP02 Fiber tip cleaning & Test, *2OPC-PoF+enclosure mount & V_{out} Test*
- Reinstall 8 Cathode Modules (bridge in place) in NP02
- Final Warm Test

	Quantity (n. of Pieces)	Resp.Institution	Production	"QC Test"	Shipping	Delivery at CERN
<ul style="list-style-type: none"> • DCEM 1.3.1 CE motherboard • SoF Laser Adapter Card • DCDC StepUp Converter Card 						
<ul style="list-style-type: none"> • PoF OPC & LightLeakege Protection Assembly • LightLeakage Protection Kit 						
Electronics Box						
WLS Plate (5.5mm thick, Low chromofore)						
• Glass-substrates (non-dichroic) set						
<ul style="list-style-type: none"> • no-dichroic Glass pTp Coating • Dichroic Glass pTp Coating 						

What	Which	Where	When	Who
<ul style="list-style-type: none"> • Disconnect, cap fibers and secure tube • Dismount PD module from Cathode 	M1 to M8	inside NP02 (Controlled Access)	May 6 to May 17	<ul style="list-style-type: none"> • Team(4p)+1: Manuel, Jay, Franciole, Laura + Supervisor(NP-CRP)
<ul style="list-style-type: none"> • Dismount dichroic frames (both sides) • Check pTp coating on dichroic glasses • (Clean from dust deposit - if possible) • Label & Store dichroic frames in rack 	M1 to M8	PD Lab - (Clean) Tent	May 6 to May 17	<ul style="list-style-type: none"> • Team(3-4p): Laura, Carla, Jay, Renan
<ul style="list-style-type: none"> • Check planarity of WLS plate and • Clean from dust deposit (if possible) 	• M1 to M8	PD Lab - (Clean) Tent	May 6 to May 17	<ul style="list-style-type: none"> • Team(3-4p): Laura, Carla, Jay, Franciole
<ul style="list-style-type: none"> • Disassemble WLS plate (4mm) and • Replace with thicker WLS(5mm) in XA frame (to be confirmed) 	• Mx, My, ..	PD Lab - (Clean) Tent	May 13 to May 24	<ul style="list-style-type: none"> • Team(3-4p): Jay, Zach, Laura, Carla,
<ul style="list-style-type: none"> • Replace dichroic filters (w/ pTp coating) with bare glass substrates (w/ pTp coating) in two pairs of frames and Label (to be confirmed) 	• Mz, Mw, ..	PD Lab - (Clean) Tent	May 27 to June 7	<ul style="list-style-type: none"> • Team(3p): Jay, Zach, Laura, Carla,
<ul style="list-style-type: none"> • Dismount faradayBox(w/ CE board, PoF and SoF) from XA frame and • Replace with new Box(w/ parts of LightLeakage kit) and Label 	• M1 to M8	PD Lab - (Clean) Tent	May 13 to May 31	<ul style="list-style-type: none"> • Team(3p): Paul, Zach, Franciole, Sabrina
<ul style="list-style-type: none"> • Warm&Cold preliminary Test of CE assembly (DCEM1.3.1 + DCDC card + 2Laser SoF Card) [offsets, V_out, noise/FFT] 	• M1 to M8	PD Lab Open Dewar - PoF LaserBox& Fiber & 2OPC kit + Koheron & Scope	May 27 to June 7	<ul style="list-style-type: none"> • Team(3p): Sabrina, FLC, Jaime
<ul style="list-style-type: none"> • Install CE assembly + other parts of LightLeakage kit inside new faradayBox - dispose & Connect signal cables • [Note: orientation of CE motherboard to be defined] 	• M1 to M8	PD Lab	May 27 to June 7	<ul style="list-style-type: none"> • Team(3p): Drew, FLC, Franciole
<ul style="list-style-type: none"> • Set of fibers in Tube, Check, tip Clean & PWR_out test (w/ PoF Laser from Top of NP02 Cryostat) + OPC-in-LLenclosure fiber termination and V_out test 	• Tube1 to Tube 8	inside & on top NP02 (Controlled Access)	June 4 to June 10	<ul style="list-style-type: none"> • Team(3-4p) Bill, Drew, Diana, FLC + Supervisor(NP-CRP)

What	Which	Where	When	Who
Cold Test set-up preparation: <ul style="list-style-type: none"> • check/replace fibers, • OPC&LightLeakage fiber termination, • CAEN (& DAPHNE, tbc) digitizers, • LAr procurement (fill ranger) 	--	EHN1-NP Cold Test set-up	June 3 to June 7	<ul style="list-style-type: none"> • PD Team(4 people): Anselmo, Manuel, Drew, Jacob, (Sam, Esteban-if DAPHNE)
<ul style="list-style-type: none"> • XA Cold Test in LAr 	M1 to M8	EHN1-NP Cold Test set-up	June 8 to June 21	<ul style="list-style-type: none"> • PD Team(8 people-rotation): Dante, Diana, Sabrina, Renan, Federico, Henrique, Eleonora, Jacob, FLC, ...

What	Which	Where	When	Who
Reassemble full XA module: <ul style="list-style-type: none"> • x6 dichroic frames both sides, • x2 glass-substrate frames both sides (to be confirmed) 	<ul style="list-style-type: none"> • Ma to Mf • Mg, Mh 	EHN1-NP Cold Test set-up	June 10 to June 23	
<ul style="list-style-type: none"> • Move XA full module into NP02 and reinstall on Cathode • Connect SoF fibers, plug-in POF OPC connectors • Close faradayBox 	M1 to M8	inside NP02 (Controlled Access)	June 17 to June 25	<ul style="list-style-type: none"> • Team(4p)+1: Manuel, Dante, ..., tbd + Supervisor(NP-CRP)
<ul style="list-style-type: none"> • XA Warm Test in Air & in Dark (procedure tbd) 	M1 to M8	NP-EHN1 Cold Test set-up	June 26 to June 28	<ul style="list-style-type: none"> • PD Team(4 people): Dante, Sabrina, Henrique, Jacob,... tbd

Bookkeeping (Franciole)	What	Where	When	Who
M1				
....				
M8				