

Planning

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APC - 01/03/2024

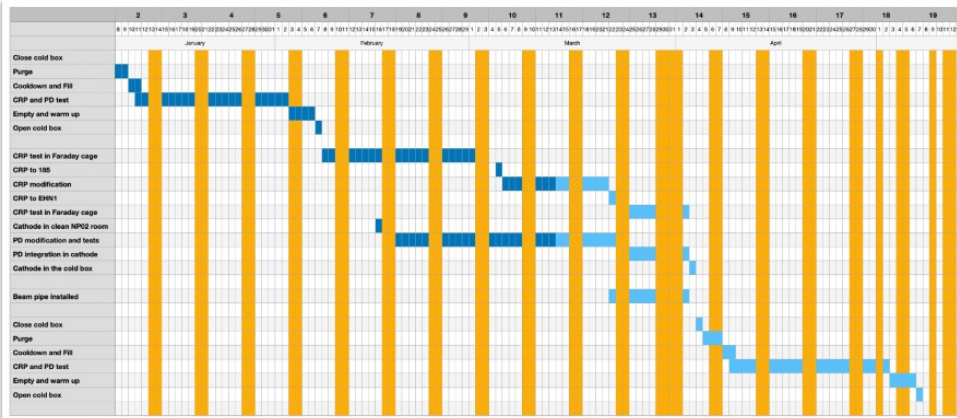
SCHEDULE PANIC: EVERYTHING IS FINE!! :)



Proposal for cold box schedule

Changes compared to the previous plan:

- NP04 beam commissioning on the week of the 25th
- Beam pipe above NP02 cold box installed on 22nd of March removed on the 2nd of April
- Installation of the cathode in the cold box on the 3rd of April
- Closure of the cold box on the 4th of April
- Fill from the 8th of April
- This gives the entire week before Ester to test the CRP in the Faraday cage



Vertical Drift Integration Meeting - 13th March 2024

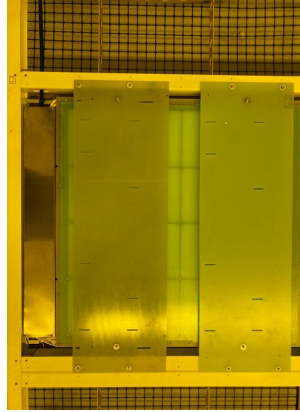
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Filippo worked his magic and the agreement is:

- Beam commissioning to be done without pipe
→ permits crane operation
- Restricted access of trenches during the week of March 25th → clean room should be accessible, but to be confirmed.
- **NEED A DOSIMETER**
- Full access after 18h.
- Otherwise, cathode will be placed on RC
- Planned closing on **Th. 28/03**
- **So, we only have 1 day less of installation.**

M1 SCHEDULE + RP SUPERVISED AREA!!

- Document with all the information I have + list of installation activities [is here](#)
- Estimated schedule: closing 28/03
- – weekend purging – “10cm fill” on Tuesday → if everything is OK* CB should be filled by 4/04. (holiday: 1/04)
 - Data taking for 3 weeks:
 - Starting on 08/04 (usually first days are CRP-only)
 - PNS run 2nd week→ ~11-18/04
 - stopping ~25/04
- Material:
 - SoF electronics for C3 and C4 → to be assembled and tested at Fermilab by Dante. Flavio travelling on the 18th
 - Fibers: (for cathode fibers C3 and C4): C3 and C4 shipped yesterday!! → express shipment → arrival ~18/03
 - Please ship also black silicon, kimwipes and alcohol; + screws and washers for xArapuca frame
- On-going work:
 - DAPHNE: @ Milano traveling with Eleonora on 8th of April.
 - SoF receivers prepared (powering w/ DAPHNE)
 - HD and VD matching to DAPHNE on-going (tests to avoid using attenuation etc)
 - 2nd DAPHNE could be made available by CSU (to be confirmed by Dave) to avoid using same AFE for two boards (CERN IP??)
 - VD: new warm stage and resistor change in the cold electronics to better match DAPHNE.
 - C1 turn around → C1 has a back plane → needs to be placed on the other side when flipped.
 - SoF electronics change of C3 and C4



M1 installation organization

- Tasks/team:
 - PDS test stand: Renan will train new people and be authorized to operate. Flavio is travelling. Adi and Emilie(?) btw 22-27/03.
 - Electronics testing: Jaime (19-22/03)
 - HD electronics: Eleonora
 - PNS: Ajib is coming in April.
 - Data taking: organizing btw Henrique, Sam, Ajib and Eleonora
 - Should have an more “expert” team to tune things the first week:
 - For cathode data, Henrique can be there 1 week
 - For HD: Eleonora;
 - For VD and PNS: possibly Ajib
 - Sam will stay and can run DAPHNE
 - Vitaly will be off-site but help with DAQ config of PNS run.

M0 fixup

- 8 cathode electronics to be replaced
- Electronics available → Backup solution
 - 5 boards w/CMOS
 - 2 boards w/bipolar+transistor
 - 2 boards in random config at CERN
 - 2 boards at Fermilab: 1 Iceberg, 1 for tests
 - 2 cards lost at Fermilab?
- New board production → to be attempted
 - UCSB could produce but take ~1.5 months
 - APC plans a proto-prod but needs Altium files (could be rushed to furnish M0)
- Plan: if CB results are good, $\frac{1}{2}$ and $\frac{1}{2}$ CMOS and non-CMOS. Otherwise, all CMOS

M0 fixup plan (int. meeting 13/03):

- Dismounting: 3 days, 3 ppl
- Refurbishing of cathode modules:
 - Total 2 weeks for 3-4 people
 - PD test stand: 1 module/day
- Fiber check: cleaning and verification of state. 1 day
- Installation: 1 module/day. 3 ppl.
- Team not identified yet → need dates! June is most likley.
- Boxes: high priority to replace all of them.
- PoF → only available for 4 modules (CB). But Bill possibly has enough.
- Lasers: not clear if enough available.