



DOM Assembly SUBATECH status

DOM Integration



Welcome Herv? Carduner your user level is: 0.
Select a possible action and press the select button.



Select a possible action.

Select Bench

Scan or enter Bench ID.



We have 17 work bench all are busy
except Closing table and Dark-box2.

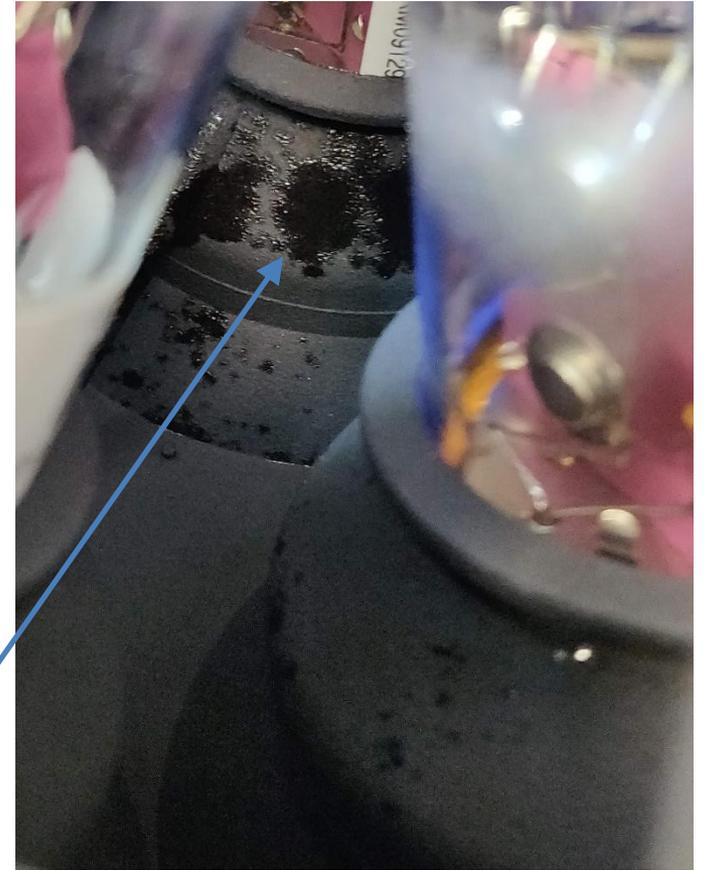
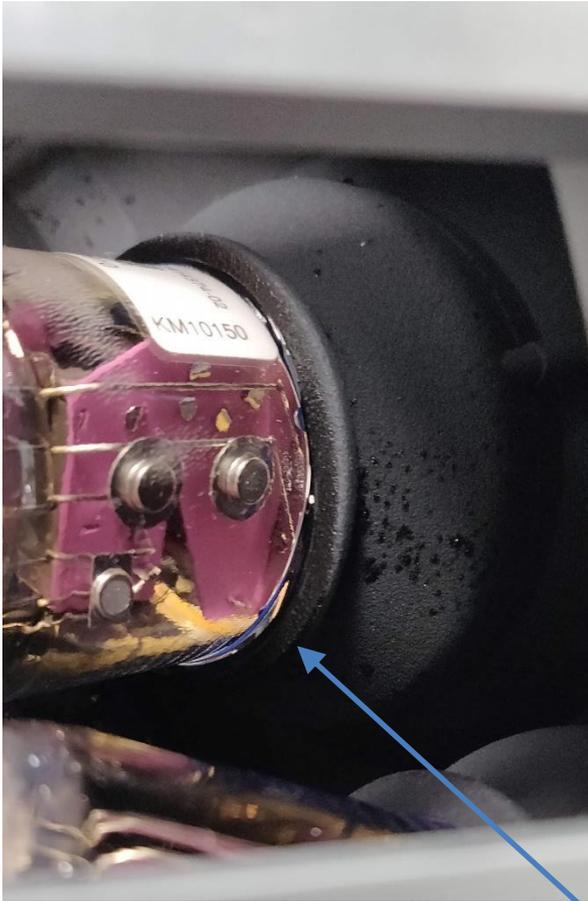
Bench	DOM	
Bench1-Pos1	3.4/TSFP/7.692	
Bench1-Pos2	3.4.5.3.3/CP:200043dd/5.0	
Bench2-Pos1	3.4.5.1/461476f2/5.0	
Bench2-Pos2	3.4.5.3/07a4e692/5.0	
Bench3-Pos1	3.4.5.1/08123798/5.0	
Bench3-Pos2	3.4.5.3/f763fd62/5.0	
Bench4-Pos1	3.4.5.1/f88c103f/5.0	
Bench4-Pos2	3.4.5.3/7aa7aad0/5.0	
Bench5-Pos1	3.4.5.2/030b215b/5.0	
Bench5-Pos2	3.4.5.2/8af2737c/5.0	
Closing-Bench		
Core-Assembly1	3.4.5.1.4/CP:200043dd/5.0	
Core-Assembly2	3.4.5.2/cf2d62a6/5.0	
Core-Assembly3	3.4.5.4/4c9193d4/5.0	
Core-Assembly4	3.4.5.4/6e196ff7/5.0	
Dark-Box1	3.4/CP:eb4d37ff/5.691	
Dark-Box2		
FausseTable	3.4/CH35C/5.0	
FausseTable2	3.4.5.1.1/CH35C/5.0	

DOM Integration
ORCA Phase II
3.4/TSFP/7.691



Pouring: Top hemisphere overflowed, several leaks:
Seal top structure/mushroom => Mastic
Pressure gauge => Mastic

DOM Integration
ORCA Phase II
3.4/TSFP/7.691



Pouring: Bottom hemisphere overflowed, several leaks:
Some O-ring don't seal their PMTs
Porosity of the structure

DOM Integration
ORCA Phase II
3.4/TSFP/7.692

New leak near the nanobeacon, the pouring have been stopped during 4 h and gel pumped with a syringe. Pouring restart in the afternoon.



Issues:

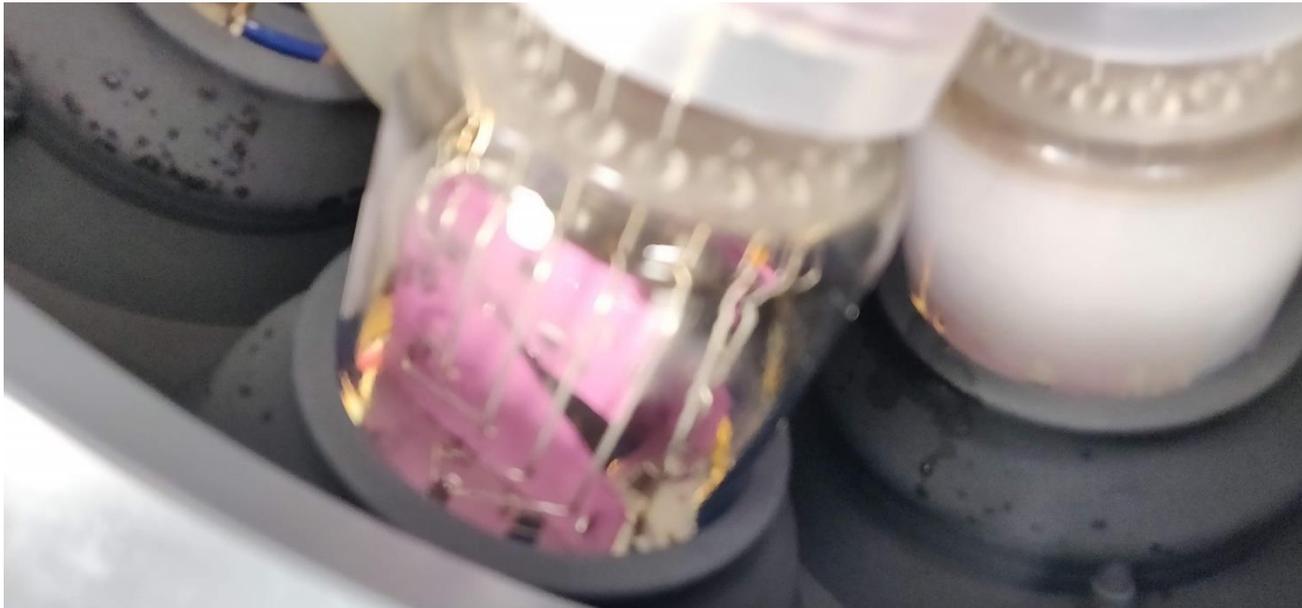
Pouring: On the 2 DOMs we had overflow between the support structure and the mushroom and around the pressure gauge, the nanobeacon.

[2020_352-NCR_Gel_leaking_during_DOM_integration](#)

On the first one not enough mastic on the mushroom, certainly, so for the second one I increased the quantity. **Same problem on the second one?**

⇒ I added mastic around the gauge inside the structure. **No problem for the second one.**

⇒ The structures are porous, a lot of points around the PMTs housing.



⇒ Leaks between the O-ring housing and the O-ring.



Bottom



Top

⇒ Support structure broken.



The Hole
Tape on the external side
mastic inside and outside



Questions:

- Are all the PMTs in Nantes available about coating?



- Is it possible to have a new Silicon mastic?

Next weeks

DOM 691: Closed, acceptance test => Ok but we have to use the new testing environment.

After 4-5 days the pressure rose to 0, pumping and observation.

DOM 692: Plan to be closed this afternoon.

To be quicker I ask to my workshop to machine 4 new tools (PMTs support)

We have now all components for 5 DOMs, just missing 4 support structures to go to 9. => **leaving Amsterdam today..**

Thank you