Leak Test SALE-01 2 Sept. 2019

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SALE-01

- Identified as one telescope with unusual gas consumption
- The plan was to measure leaks on this telescope at the latest by the beginning of September
- Measurements performed on September the 2nd 2019
- We followed the procedure provided by Upgrade Team







We started with SALE-01-Middle Chamber



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We continued with SALE-01-Bottom Chamber



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...we had a lunch break too



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We finished with SALE-01-Top Chamber



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Summary

- ✓ SALE-01 showed an unusual gas consumption, so it was identified as one of the problematic telescopes
- ✓ We performed MRPCs leak test using the procedure (clear and easy) provided by the upgrade group
- We found two "weird&huge" leaks on two gas connectors and performed the leak test "bypassing the connector"
- Data analysis using agreed tools is quite easy: according to it and to a 1 hour measurement at EEE operating overpressure we state that the chambers are ok
- We need to check possible leaks on the remaining part of the system (bottles—> pressure regulator—>mixer—>chamber)
- ✓ Time estimation: the leak measurement can be done in 1-2 days
 - Time needed to find (and eventually cure) leaks 1 day 0
 - 0 Add 1 day to repeat the measurement and check the system (bottles \rightarrow pressure regulator \rightarrow mixer \rightarrow chamber)



