

Helium level gauges

- **The issue**
- **Status**
- **Conclusion**

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Helium level gauges

The issue [See MARIC 07/11/2007 presentation by P Fessia]

Trigger :

Pinch-off tube was blocking closure of IC
To progress and contrary to instruction given by CERN, IEG decided to rotate it to allow closure.

Action :

Complete inspection (external with a template to check rotation) of the 8 sectors is launched

- * Completed for sectors 1-2 and 2-3
- * On-going for the other ones



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Inspection results:

1-2 :

- 11 to be replaced
4 already done and leak tested

- 1 to repair

2-3 :

- 4 to be checked
- 6 to repair

Q7R2		Q7R1	
Q9R2		Q9R1	
Q11R2	Bellow to be checked	Q11R1	
Q13R2		Q13R1	To be replaced
Q15R2		Q15R1	To be replaced
Q17R2		Q17R1	
Q19R2	Tube a deplier	Q19R1	
Q21R2		Q21R1	
Q23R2	Tube a deplier	Q23R1	Replaced 13-11-07
Q25R2	Bellow to be checked	Q25R1	To be replaced 15-11-07
Q27R2	Tube a deplier	Q27R1	
Q29R2	Tube a deplier	Q29R1	To be replaced 14-11-07
Q31R2	Tube a deplier	Q31R1	To be replaced 14-11-07
Q33R2	Tube a deplier	Q33R1	
Q33L3		Q33L2	To be replaced
Q31L3		Q31L2	
Q29L3		Q29L2	To be replaced
Q27L3		Q27L2	
Q25L3	Bellow to be checked	Q25L2	
Q23L3		Q23L2	
Q21L3		Q21L2	To be replaced
Q19L3	Bellow to be checked	Q19L2	
Q17L3		Q17L2	Tube a deplier
Q15L3		Q15L2	To be replaced
Q13L3		Q13L2	
Q11L3		Q11L2	
Q9L3		Q9L2	To be replaced 15-11-07
Q7L3		Q7L2	

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Conclusions:

Further actions:

- Complete replacements in 1-2 (MCS)
Priorities according to VACSEC
- Repairs in 2-3 after pressure test and subsequent leak test (2 leaks in 7L3) (MCS)
- Procure new spare pieces / assemblies (MCS-ACR)
- Investigate to understand the reasons behind this (Why only 1-2 and 2-3) (MCS)
The occurrence of this problem has increased in a short time
- Install warning panels (ACR)

Spare pieces :

13 are available
+ 14 bellows (could be used with recovered pieces)

11+4 Max \leq 15 replacements.

OK up to now depending on results in other sectors

Update in next MARIC by V Parma

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