

## Zana Kamangar

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**From:** Zana Kamangar  
**Sent:** Monday, January 29, 2024 8:02 AM  
**Subject:** IMPORTANT - Repeatability Test  
**Importance:** High

When **Repeatability test is MANDATORY** during the examination?

**1.** It is mandatory for **ALL initial inspections** of any device to perform the repeatability test.

**2.** When the Fast Flow Test's maximum attainable **flow rate does not exceed 40% of the approved maximum flow rate**, it is mandatory to perform a repeatability test.

*\*\*Note: To obtain an accurate, fast flow rate, please refer to STP-5.*

For example, consider a refueler device type 51-11. Its **capacity/maximum flow rate is 225 LPM**, and the **as-found fast flow rate is 82 LPM**. In this case, repeatability must be performed for this device. However, if the as-found fast flow is equal to or greater than 90 LPM, then repeatability is not mandatory.

**3.** Repeatability Test for in-service inspections shall be performed on all measuring systems that incorporate a measuring element or chamber that is not of the positive displacement (PD) type. For example, it is **mandatory to perform repeatability in Coriolis (mass) flow meters** and turbine meters.

**4.** If the **difference between the results of the Fast Flow Test and the Slow Flow Test exceeds two-fifths (2/5)** of the in-service LOE for the known test quantity being used, repeatability is mandatory.

For example, A repeatability test is mandatory for a fuel dispenser device type 50 if the spread between fast and slow flow exceeds 40ml ( $100\text{ml} \times 2/5 = 40\text{ml}$ ).

Kind Regards/Cordialement,

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