



Decision Rule Information

Section 0: Purpose:

This information provides an overview of decision rule adopted by Intertek Hong Kong (Softlines). With reference to ISO/ IEC 17025: 2017 Clause 3.7, ***decision rule describes how measurement uncertainty is accounted for when stating conformity with a specified requirement.***

When a **statement of conformity** to a specification or standard for is provided on test report, decision rule shall be applied. If decision rule already inhered in the requested specification or standard, this “Decision Rule Information” is not applicable. Currently, Intertek Hong Kong (Softlines) adopted the decision rule model “Non-Binary Statement – Guard Band”.

The **statement of conformity** shall be reported such that the statement clearly identifies:

- a) to which results the statement of conformity applies;
- b) which specifications, standard or parts thereof are met or not met;
- c) the decision rule applied (unless it is inherent in the requested specification or standard).

Remark: Decision Rule is not applicable for the test standard / specification which cannot evaluate Measurement Uncertainty. For example, Qualitative Analysis, Present / Absent Test and Visual Assessment.

Non-binary statement with Guard Band

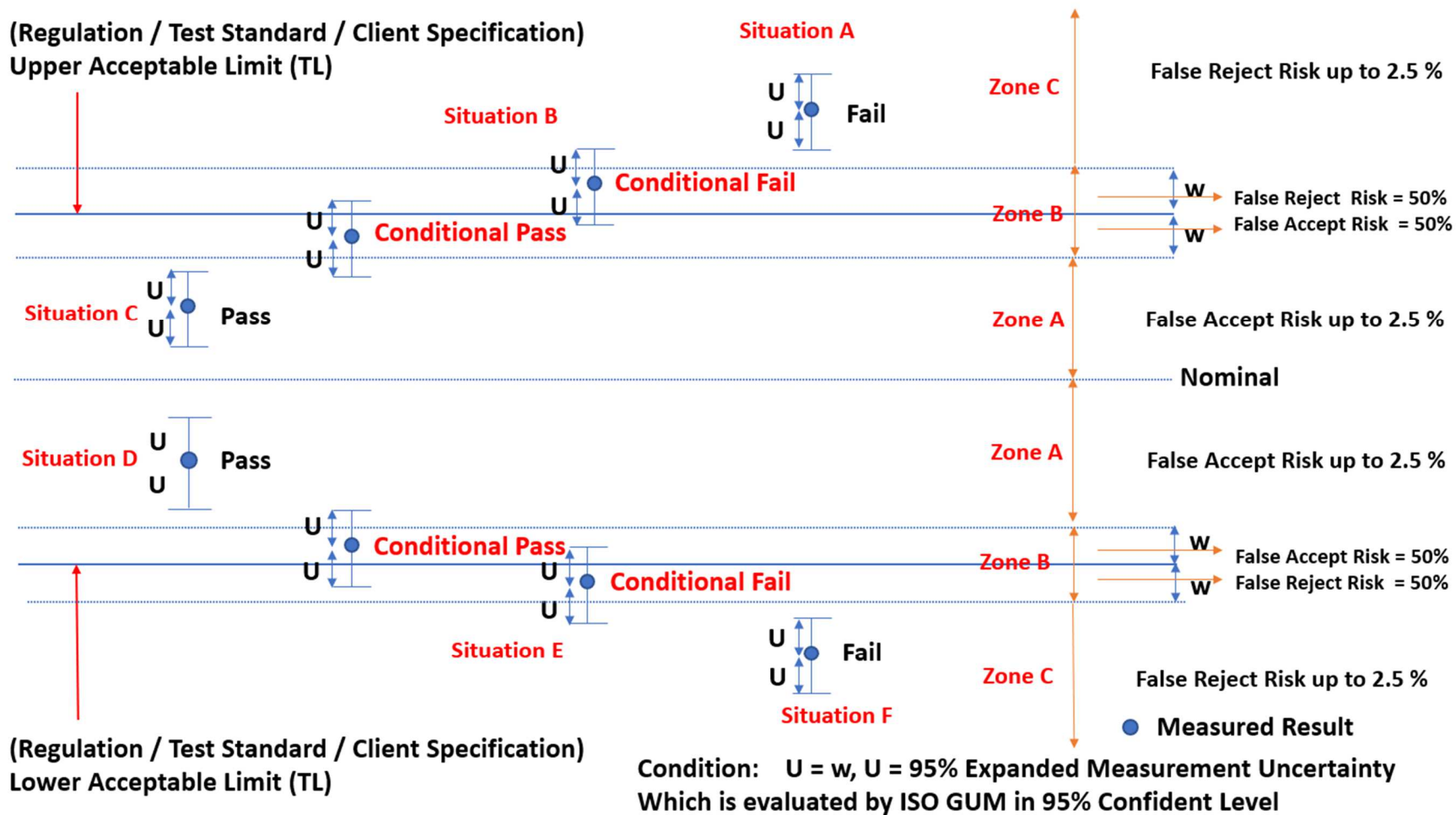
The Decision Rule Model “Non-binary statement with Guard Band” which is reference from [ILAC G8:09/2019](#) “Guidelines on Decision Rules and Statements of Conformity” Section 4.2.3.

Statement of conformity on Intertek Test Report

1. **Pass/Meet/Comply** - the measured result is below the **acceptance limit, AL** (Zone A)
2. **Inconclusive (Conditional Pass or Conditional Fail)** - the measured result is inside the **guard band, w** (Zone B)
3. **Fail/Not Meet/Not Comply** - the measured result is above the **tolerance limit TL** (Zone C)



Diagram of Non-binary statement with Guard Band





Example below shows the case when the Measured Result (+/- MU) is marginal to Upper or Lower Acceptable Limit:

	Measured Result	MU	Measured Result + MU	Measured Result – MU	Upper Acceptable Limit	Guard Band (w)	Statement of conformity
Situation A	205	5.0	210.0	200.0	<200	5.0	Fail
					≤200	5.0	Conditional Fail
Situation B	200	5.0	205.0	195.0	<200	5.0	Conditional Fail
					≤200	5.0	Conditional Pass
Situation C	195	5.0	200.0	190.0	<200	5.0	Conditional Pass
					≤200	5.0	Pass
	Measured Result	MU	Measured Result + MU	Measured Result – MU	Lower Acceptable Limit	Guard Band (w)	Statement of conformity
Situation D	105	5.0	110.0	100.0	≥100	5.0	Pass
					>100	5.0	Conditional Pass
Situation E	100	5.0	105.0	95.0	≥100	5.0	Conditional Pass
					>100	5.0	Conditional Fail
Situation F	95	5.0	100.0	90.0	≥100	5.0	Conditional Fail
					>100	5.0	Fail

Remark:

Upper Acceptable Limit may: 1) equal to or below Regulation / Test Standard / Client Specification e.g. ≤200
 2) below Regulation / Test Standard / Client Specification e.g. <200

Lower Acceptable Limit may: 1) equal to or above Regulation / Test Standard / Client Specification e.g. ≥100
 2) above Regulation / Test Standard / Client Specification e.g. >100



Revision History:

Version number and details of changes	Date
Ver 1.0 New issue	05-03-2020
Ver 2.0 Removal of simple acceptance model	17-06-2020
Ver 3.0 Example in Page 3	13-01-2021
Ver 4.0 Update the diagram in Page 2 and add the False Accept & Reject 2.5% Update the example in page 3	14-04-2022
Ver 5.0 Update the diagram in Page 2 Update the Conditional Pass and Conditional Fail Update the example in page 3	20-07-2022

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