




POLICY		 NRCS national regulator for compulsory specifications	
Policy Number	LM-P-033-07-15 - Location where verifications shall be performed on NAWIs	Compiled by: HP Ferreira	Signature: 
Effective Date	2016-11-07	Approved by: NT Madzivhe	Signature: 
Version No:	3		
File name:	LM-P-033-07-15 Rev3 –Location where verifications shall be performed on NAWI		

1. Scope

This policy describes the location where initial- and subsequent verification shall be performed with respect to non-automatic weighing instruments (NAWI).

2. Reference documents

SANS 1649:2014
Legal Metrology Act, 2014

3. Definitions

Verification

initial- or subsequent verification in terms of section 24 of the Legal Metrology Act(Act 9 of 2014).

Initial verification

verification of a measuring instrument which has not been verified previously.

Subsequent verification

verification of a measuring instrument after a previous verification

Note 1 Subsequent verification includes

- mandatory periodic verification,
- verification after repair, and
- voluntary verification.

Note 2 Subsequent verification of a measuring instrument may be carried out before expiry of the period of validity of a previous verification either at the request of the user (owner) or when its verification is declared to be no longer valid.

4. Background



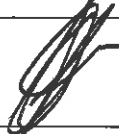
This policy replaces LM-P-001-09-08-Gravity effect on NAWI-Rev1, effective date 2009-12-08. It was revised to be in line with the requirements of SANS1649:2014 (Edition 2.1).

Previous research in South Africa has found that differences in accuracies do occur when instruments are adjusted (verified), for example, in Pretoria and then used at sea level (Durban), this being due to the change in gravity. Weighing instruments may therefore have the capability of gravity compensation, by inserting a gravity factor/value, to compensate for the accuracy of the instrument at different altitudes and latitudes.

5. Policy

5.1 General

It shall be documented in the type approval documentation if an instrument has the capability of entering a "g-factor/ value" to compensate for the accuracy of the instrument.

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5.2 Verification

5.2.1 Verification shall only be performed by a verification officer or an inspector authorized by the national responsible body.

5.2.2 Verification shall not be concluded unless conformity of the instrument to the approved type and compliance with the requirements of the standards are established.

5.2.3 Verification may be carried out at the manufacturer's facility or any other location if:

- a) transport to the place of use does not require dismantling of the instrument,
- b) putting the instrument into service at the place of use does not require assembly of the instrument or other technical installation work likely to affect the instrument's performance, and
- c) the gravity value at the place of putting the instrument into service is taken into consideration.

5.2.4 In cases other than in 5.2.3, the verification shall be carried out at the place of use of the instrument.

5.2.5 If an instrument which is type approved with a function of entering a "g-factor" value to compensate for the accuracy of the instrument is verified at a place other than the place where the instrument will be put into service the "g-factor" value for the place where the instrument will be put into service must be entered into the instrument after the verification test and before the instrument is sealed and delivered.

5.2.6 The following information must be noted on the Verification Certificate:

- a) the name and address of the place where the instrument will be put into service, and
- b) the "g-factor" value of the place where the instrument will be put into service.

5.2.7 A master list with the "g-factor" values for towns in South Africa is available on the NRCS, Legal Metrology website. Follow the link: <http://www.nrcs.org.za/#>

5.2.8 Only applicable "g-factor" values from the NRCS, Legal Metrology master list may be entered into a relevant measuring instrument.

5.3 Relocation of instruments after verification

When an instrument is re-located to a location with a "g-factor" value different from the "g-factor" value where the instrument was used, it is the responsibility of the user of the instrument to ensure re-verification of the instrument before the instrument may be used at the new location.