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Dear customer,

We have received numerous enquires regarding the batch verification process, especially regarding the sampling procedure and the serial numbers covered by the batch verification.

We would like to clarify the procedure as follows:

Introduction

Batch/Unit verification is required when a manufacturer does not have a certified mark scheme in accordance with ISO 9001 and as required by ARP0108.

The batch verification is conducted by an ATL (approved test laboratory) in order to ensure that all units manufactured in the specific batch meet the original certification and standard requirements.

Sampling Procedure

All sampling is done in accordance with SANS 96. The entire batch needs to be made available to Explolabs (Pty) Ltd and random sample(s) shall be drawn in accordance with the relevant sampling tables as given below. This must be a batch made in the same production run, off the same production line, made under the same conditions and with the same components.

For apparatus certified Ex d, Ex e, Ex i, Ex m, Type n, Ex o, Ex p and Ex q (or combinations thereof), the batch shall be sampled in accordance with table 1. For apparatus certified DIP(Ex tD) or Hose-Proof (IP) or both, the batch shall be sampled in accordance with table 2.

The sampling can be done **Explolabs** at the customer's premises or the batch can be send to the laboratory. (Depending of the type of product)

Batch size	Sample Size
2-8	2
9-15	3
16-25	5
26-40	6
41-65	7
66-110	8
111-180	10
181-300	15
>300	5% of total

Table 1 — Sampling procedure for apparatus certified Ex d, Ex e, Ex i, Ex m, Type n, Ex o, Ex p, and Ex q (or combinations thereof)

Batch size	Sample Size
1-3	All
4-10	3
11-20	5
21-50	10
51-100	15
101-300	30

Table 2 — Sampling procedure for apparatus certified DIP or Hose-proof (or both)



The South African National Accreditation System (SANAS) is a member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This Arrangement allows for the mutual recognition of technical test and calibration data by the member accreditation bodies worldwide. For more information on the Arrangement please consult www.ilac.org

T0104

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Compliance requirements

Ex d, Ex e, Ex i, Ex m, Ex o, Ex p, Ex q and DIP(Ex tD) or Hose-Proof Apparatus (or both)

For these types of apparatus (or combinations thereof), no failures of any of the samples shall occur.

When a batch is rejected, the manufacturer, distributor or supplier shall inspect and correct all the units in the batch and re-submit the entire batch to Explolabs (Pty) Ltd. Explolabs (Pty) Ltd shall re-sample the batch in accordance with the relevant standards at an additional cost. If the batch is rejected for the second time, the entire batch (all samples) will be subjected to an inspection/check.

Type “n” electrical apparatus

For these types of apparatus (or combinations thereof), no failures of any of the samples shall occur except in the following cases:

- a) For a batch size of 110 to 180 units, the failure of 1 unit is acceptable.
- b) For a batch size of 181 to 300 units, the failure of 2 units is acceptable.

When a batch is rejected, the manufacturer, distributor or supplier shall inspect and correct all the units in the batch and re-submit the entire batch to Explolabs (Pty) Ltd. Explolabs (Pty) Ltd shall re-sample the batch in accordance with the relevant standards at an additional cost. If the batch is rejected for the second time, the entire batch (all samples) will be subjected to an inspection/check.

Certification

Certification is issued in the form of a batch assessment report which will list the serial numbers of the entire batch as well as a list of the samples inspected/tested.

Please do not hesitate to contact us should you require any further assistance.

Kind Regards,

Explolabs Management