ATTESTATION OF CONFORMITY
No. 10021419-OPE/INC 16-2490

Issued to:
ABB
GA Products
Nätverksgatan 3, B391, Finnslätten
721 59 Västeras
Sweden

For the system:
REC 670
Type: Slave station
Product version 2.2
Firmware version 2.2.0.28

With the implemented communication protocol:

IEC 60870-5-103 (IS 1998)

The product has not been shown to be non-conforming to the specified protocol standard, including the interface requirements.

End-to-End data element tests for the information and control points as described in manufacturer Protocol Implementation Conformance Statement (PICS) have been performed on the product’s protocol implementation. Functional tests in controlled mode are performed for the following levels:

- Station initialization in Unbalanced mode
- Cyclic data transmission
- Acquisition of events
- General Interrogation
- General command
- Clock synchronisation
- Transmission of Disturbance records
- Test mode and local parameter setting

The test campaign did not reveal any errors in the product’s protocol implementation.

This Attestation is granted on account of tests made at location of ABB in Västerås, Sweden and performed with UnIECim version 3.0.3 (2014) running CS103 Test Suite version CS103MasterNormal 2.5. The results, including remarks and limitations, are laid down in our report no. 10021419-OPE/INC 16-2491.

The tests have been carried out on one single specimen of the product, submitted by ABB. The Attestation does not include an assessment of the manufacturer’s production. Conformity of its production with the specimen tested by DNV GL is not the responsibility of DNV GL.

Arnhem, November 8, 2016

P. Cioci
Head of Section
Operational Excellence

G. Webber
Test Consultant

IMPORTANT: Remarks apply to this implementation. See the resulting report for full details. Publication of this document is allowed. Publication in total or in part and/or reproduction in whatsoever way of the contents of the above mentioned report(s) is not allowed unless permission has been explicitly given either in the report(s) or by previous letter.