

## IEC 61850 Certificate Level B<sup>1</sup>

Issued to:

ABB AB

SA Products

S\_721 59 Västerås

Sweden

For the product:

REC650 1.2

Software Version: 1.2.1.0

Hardware Version: 1MRK008514-CC

Serial Number: T1238148

Issued by: ABB Switzerland Ltd, Power Systems, SVC Baden

**The product has not shown to be non-conforming to:**

## IEC 61850-5 performance class P1

The performance test has been performed according to the UCA International Users Group GOOSE performance Test Procedures version 1.2 with product's protocol implementation conformance statements: "1MRG006609 650 series version 1.2 – IEC 61850 PICS", and product's extra information for testing: "PIXIT for GOOSE Performance 650 series version 1.2".

This Certificate summarizes test results as carried out at SVC in Switzerland with GOOSE publisher "Omicron Test Univers version 2.40 SR1" and the analysers from "National Instruments, Gigastore, version 14.1 and ABB, ITT, version 1.8". This document has been issued for information purposes only, and the original paper copy of the test report: No. "1KHL050038 Test procedures for GOOSE Performance ABB REC650" will prevail.

The GOOSE performance has been measured with Boolean and Double Point information's.

Baden 2013-01-14



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Test Manager



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Responsible Test Engineer

<sup>1</sup> Independent test lab, being ISO 9000 certified, allowed to issue UCA® level A / ISO 9000 certified test lab, allowed to issue UCA® level B

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