IEC 61850 Certificate Level A[1]

No. 30820048-Consulting 08-0450

Issued to:
DOBLE Engineering Company
85 Walnut street
Watertown, MA 02472
USA

For the product:
F6150 Power System Simulator
Firmware version 4.27

Issued by: **KEMA**

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

IEC 61850-7-2 and 8-1

Communication networks and systems in substations

The conformance test has been performed according to IEC 61850-10 with product's protocol implementation conformance statement: "Protocol Implementation Conformance Statement for Doble Engineering F6150 version 1.0" and product's extra information for testing: "Protocol implementation extra information for testing (PIXIT) of the IEC 61850 communication interface in Doble Engineering F6150 version 1.0".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases as defined in the UCA International Users Group Server Device Test procedures v1.1):

9a GOOSE Publish (4/11) 9b GOOSE Subscribe (9/9)	13 Time Synchronisation (3/4)

This Certificate includes a summary of the test results as carried out at Doble Engineering Company in the United States of America with UniCAsim 61850 version 3.16.00 with test suite 3.16.06 and UniCA 61850 analyzer 4.16.00. The test is based on the UCA International Users Group Server Device Test Procedures version 1.1. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 30820048-Consulting 08-0449 will prevail.

The test have been carried out on one single specimen of the products as referred above and submitted to KEMA by Doble Engineering Company. The manufacturer's production process has not been assessed. This Certificate does not imply that KEMA has certified or approved any product other than the specimen tested.

Arnhem, 19 March 2008

W. Strabbing
Manager Intelligent Network Control and Protection

M. Flohil
Test Engineer

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System

Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 1.1

Conformance Block	Mandatory	Conditional
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	
9b: GOOSE subscribe	Gos1, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
13: Time synch	Tm1, Tm2, TmN1	