



CERTIFICATE NUMBER
OEP-TTQ002

DATE
05 MAY 2015

ABS TECHNICAL OFFICE
ABS OEP COPENHAGEN

CERTIFICATE OF TOWING TANK TEST FACILITY QUALIFICATION

Name of Facility: BULGARIAN SHIP HYDRODYNAMICS CENTRE (BSHC)

Address: 1 "William Froude" Str., kv. Asparuhovo, P.O. Box 58, 9003 Varna, Bulgaria

Scope of Services: Towing Tank Tests for Establishing Vessel Performance Predictions (Speed-Power Curve) for the Preliminary Verification (and Final Verification, if Applicable) of the Energy Efficiency Design Index (EEDI) at the Design Stage

THIS IS TO CERTIFY THAT a representative of this Bureau has carried out an inspection of the quality control system, test procedures, record of test equipment calibration, standard model-ship extrapolation and correlation methodology, and technical qualification of the personnel of the above-mentioned Facility, in accordance with Regulations of MARPOL Annex VI and IACS Procedural Requirement No. 38 as a Verifier defined in the "2014 Guidelines on Survey and Certification of the Energy Efficiency Design Index (EEDI) (MEPC.254(67))", and that the Facility is found to be capable of providing the above-mentioned scope of services.

This Certificate of Towing Tank Test Facility Qualification, Certificate Number OEP-TTQ002, is valid until 04 May 2017 or until the standards used in the qualification inspection are revised (whichever occurs first), at which time it will be renewed subject to a complete review mutually arranged by the Facility and this Bureau.

Issued on: 05 May 2015 by American Bureau of Shipping

Issued at: Copenhagen, Denmark

Jan Otto de Kat
Director, Energy Efficiency and Vessel
Performance, Copenhagen OEP

Note: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the above-mentioned Facility procedures will result in this certificate becoming null and void.