

MINUTES OF MEETING

SIMMAN 2007

SIMMMAN 2007

Meeting of organizers and co-organizers no. 1

Workshop on Verification and Validation of Manoeuvring Simulation Methods

www.simman2007.dk

Participants

Paolo Bulgarelli (INSEAN), Riccardo Broglia (INSEAN), Andres Cura (SVA), Adolfo Marón (CEHIPAR), Key-Pyo Rhee (Seoul National University), Suak-Ho Van (MOERI), Yasuo Yoshimura (Hokkaido University), Jakob Buus Petersen (A.P. Moeller - Maersk), Pierre Perdon (BEC), Fred Stern (IIHR), Kristian Agdrup (FORCE)

C.C. to

Sun Young Kim (MOERI), Mathias Vogt (HSVA), Ueno (NMRI), In-Young Koh (NSWC), Serge Toxopeus (MARIN)

Date

Sept. 6, 2005

Place

Roxburghe Hotel, Edinburgh, UK (24th ITTC)

No. of pages

2

Minutes taken by

Kristian Agdrup (FORCE)

Action items

No.

Responsible

1. Purpose and background of workshop

Stern outlined the background, purpose and the test cases for the workshop as according to the Announcement available on the web site www.simman2008.dk. The structure with an executive organizing committee, a group of co-organizers and a sub-committee for each hull type was described and agreed upon.

2. Test plan

The preliminary test plan (Table 1) was discussed and the following comments/corrections were made:

KVLCC1 & 2:

- MOERI will **supply/confirm rudder and propeller data** as used for appended hull PMM tests with KVLCC1 & 2. Will also **check PMM test programs** on web site.
- **MOERI test results will be made available on web site.** Data files to be sent to Agdrup (ka@force.dk) in the format described on the web site.
- INSEAN will carry out PMM tests with bare hull in shallow and deep water as well as appended hull tests in shallow water for both KVLCC1 & 2. **Bare hull PMM tests with KVLCC1 to be added to Test plan.** Models are currently being finalized. INSEAN plans to start tests beginning of December 2005 starting with KVLCC2 bare hull tests in shallow water. All tests should be finalized in 2005. Agdrup and possibly Stern/Purtell to participate in part of tests. **Test dates to be confirmed.**
- NMRI is planning to perform **appended hull circular motion tests (CMT)** for both KVLCC1 & 2. However, this has **to be confirmed** and should therefore not be on Test plan at this stage.
- MOERI will perform bare hull CMT with KVLCC2 with a small model (ab. 2 m). **Scope of measurements to be confirmed.**
- HSVA will perform free model tests with both KVLCC1 & 2. **Date to be confirmed** (spring 2006?). Models will be transported from INSEAN to HSVA.

KCS:

- CEHIPAR will carry out deep water PMM test in 4 DOF with KCS. **Date to be confirmed.** Model will be transported from SVA to CEHIPAR.
- NMRI will perform appended hull CMT with KCS in December 2005. **Test plan to be updated.**
- SVA have performed the first free model tests with KCS. Preliminary results indicate that ship is unstable in yaw. These tests were done with a GM of 1.1 m (nominal value is 0.6 m) giving substantial roll angles of up to ab. 8 deg. Also helm

#1

Van/Kim

#2

Van/Kim

#3

Agdrup

#4

Bulgarelli

#5

Ueno

#6

Van/Kim

#7

Cura/Vogt

#8

Marón

#9

Agdrup

<p>rate was higher than nominal value in order to accomplish zig-zag in basin. It was agreed to fix GM at a value that enables the tests to be accomplished, but still relevant for the ship type i.e. probably between 0.6 and 1.1 m. Similarly for the helm rate. MOERI will check relevant GM and helm rate.</p>	#10	Van/Kim
<p><u>5415:</u> - FORCE have performed appended hull PMM tests in 4 DOF with 5415. FORCE test results should be made available on web site.</p>	#11	Agdrup/ Mølgaard
<p>- FORCE/IIHR/INSEAN have performed appended and bare hull PMM tests with 5415 (all fixed in roll). Some testing activity is still continuing in IIHR. FORCE/IIHR/INSEAN test results should be made available on web site.</p>	#12	Agdrup/ Stern/ Bulgarelli
<p>- MARIN have performed free model tests with 5415 and made the report available to the workshop. - BEC will carry out CMT with 5415, but scope of tests is not defined. It was suggested to carry out bare hull tests (incl. bilge keels) for comparison with FORCE/IIHR/INSEAN tests, and if possible also appended hull tests for input to systems based simulation methods. In both cases the model and appendages could be transported from FORCE. BEC plans reg. scope and schedule to be confirmed.</p>	#13	Perdon
<p><u>3. Schedule</u> It was agreed to move the date of the workshop in Copenhagen to Autumn 2007 in order to allow time for documentation of results in 25th ITTC MC report. The name of the workshop will be changed to SIMMAN 2007.</p>		
<p><u>4. Web site</u> - The web site will be updated to SIMMAN 2007 where necessary and moved to www.simman2007.dk (with an automatic transfer from www.simman2008.dk).</p>	#14	Agdrup
<p>- The minutes of this meeting and the coming will be available on the web site.</p>	#15	Agdrup