

Model Test Specification

| | |
|--------------------|----------------------|
| Hull | KVLCC2 |
| Test type | Captive (PMM) |
| Water depth | Deep |
| Appendages | Appended |

TEST PROGRAM

| Test kind | U/U0 (non-dim.) | Prop. Revs(*) (non-dims) | Rud. Angle (deg.) | Drift Angle (deg.) | Sway Acc. (non-dim.) | Yaw Vel. (non-dim.) |
|----------------|--------------------|-----------------------------|----------------------|-----------------------|---------------------------|------------------------------------|
| Static Rudder | 1.0 | 1.0 1.277 | -15~25, +5 | 0 | 0 | 0 |
| | 0.8571 | | -10~20, +10 | 0 | 0 | 0 |
| | 0.7143 | | -10~20, +10 | 0 | 0 | 0 |
| | 0.5714 | | -10~20, +10 | 0 | 0 | 0 |
| | 0.4286 | | -10~20, +10 | 0 | 0 | 0 |
| | 0.2857 | | -10~20, +10 | 0 | 0 | 0 |
| Static Drift | 1.0 | 1.0 1.277 | 0.0 | ±30~±20, ±5 | 0 | 0 |
| Drift & Rudder | 1.0 | 1.0 1.277 | 0.0, 25 | -30 | 0 | 0 |
| | | | 0.0, 23 | -25 | 0 | 0 |
| | | | 0.0, 20 | -20 | 0 | 0 |
| | | | 0.0, 18 | -16 | 0 | 0 |
| | | | 0.0, 16 | -12 | 0 | 0 |
| | | | 0.0, 14 | -9 | 0 | 0 |
| | | | 0.0, 12 | -6 | 0 | 0 |
| | | | 0.0, 10 | -4 | 0 | 0 |
| | | | 0.0, 7 | -2 | 0 | 0 |
| | | | 0.0 | - | 0 | 0 |
| | | | 0.0, -7.0 | 2 | 0 | 0 |
| | | | 0.0, -10.0 | 4 | 0 | 0 |
| | | | 0.0, -12.0 | 6 | 0 | 0 |
| | | | 0.0, -14.0 | 9 | 0 | 0 |
| | | | 0.0, -16.0 | 12 | 0 | 0 |
| | | | 0.0, -18.0 | 16 | 0 | 0 |
| 0.0, -20.0 | 20 | 0 | 0 | | | |
| 0.0, -23.0 | 25 | 0 | 0 | | | |
| 0.0, -25.0 | 30 | 0 | 0 | | | |
| Pure Sway | 1.0 | 1.0 1.277 | 0.0 | 0.0 | 0.05, 0.10, 0.15, 0.20 | |
| Pure Yaw | 1.0 | 1.0 1.277 | 0.0 | 0.0 | 0 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6 |
| Yaw with Drift | 1.0 | 1.0 1.277 | 0.0 | 4,8,12,16 | 0 | 0.1, 0.2, 0.3, 0.4, 0.5, 0.6 |

(*) Propeller revolution 1.0 means ship self propulsion point and 1.277 means model self propulsion point.