Stability Requirements in Wind and Waves

Amended Rules

Rules for the Survey and Construction of Steel Ships Part U

Reason for Amendment

The International Code on Intact Stability 2008 (2008 IS Code) defines an effective wave slope coefficient “r” which is to be used in stability calculations. This coefficient is intended to take into account the mitigating effect that differences in the pressure distributions acting on hull surfaces and actual wave surfaces have on wave slope during such calculations.

This coefficient is also defined in Part U of the ClassNK Rules for the Survey and Construction of Steel Ships; the ClassNK definition, however, further specified that the value used for “r” did not need to be taken greater than 1.0, even in cases where the actual calculated value was higher. This is because the coefficient had been first incorporated into the Rules prior to the adoption of the 2008 IS Code and its definition was based upon the results of calculations referenced in the non-mandatory Resolution A.749 (18) which was in effect at the time. This means, however, that the definitions of “r” currently specified in the 2008 IS Code and Part U were slightly inconsistent.

Since compliance with the 2008 IS Code is mandatory, relevant requirements in Part U were amended accordingly to eliminate any inconsistencies with the 2008 IS code.

Outline of Amendment

Amended the definition of effective wave slope coefficient “r” in accordance with the 2008 IS Code.

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part U: 2.3.1