

# **Open-up Surveys of Machinery and Equipment at Planned Machinery Surveys**

## **Amended Guidance**

Guidance for the Survey and Construction of Steel Ships Part B  
Guidance for High Speed Craft

## **Reason for Amendment**

- (1) In consideration of recent improvements made in the manufacturing reliability of the principle components of main diesel engines, the increased implementation of appropriate maintenance plans for said components in accordance with the International Safety Management (ISM) Code as well as decreases in the damage rates such components, the current NK Rules related to Planned Machinery Surveys recognize open-up surveys of such components conducted independently by chief engineers as being equivalent to open-up surveys on the same components conducted in the presence of a Society surveyor.

Recently there has been some consideration given to recognizing independent surveys for intermediate shafts, thrust shafts, and air reservoirs for reasons similar to those given above. As a result, relative requirements have been amended so that open-up surveys on such components and equipment conducted independently by chief engineers are accepted as being equivalent to surveys conducted in the presence of a Society surveyor subject to the confirmation of service and maintenance conditions.

- (2) Regarding the rules related to Planned Machinery Surveys for high speed craft, general requirements for such surveys specified in the Rules for the Survey and Construction of Steel Ships Part B are currently applied mutatis mutandis in addition to special requirements specified in the Rules for High Speed Craft. However, there are some incongruities between the Planned Machinery Survey requirements specified in Part B and those specified in the Rules for High Speed Craft.

Accordingly, relevant rules have been amended to eliminate any such incongruities.

## **Outline of Amendment**

- (1) Relevant rules have been amended to allow independent open-up surveys of intermediate shafts, thrust shafts and air reservoirs to be conducted by chief engineers without the presence of a surveyor.
- (2) Relevant rules for high speed craft have been amended to allow independent open-up surveys of principle components of main diesel engines such as crankshafts, main bearings, crankpin bearings, crankpin bolts as well as camshafts and camshaft driving devices to be conducted by chief engineers without the presence of a surveyor.
- (3) Fuel oil coolers have been added as a survey item for Planned Machinery Surveys for high speed craft.