Implementation of the Polar Code and its effect on the shipbuilding contract

Robert Douglas Tustin
Lloyd’s Register Classification Society (China)
Shanghai, China

Chihyun Sung
Busan Technical Support Office, Lloyd’s Register Asia
Jung-gu, Busan, Korea

Mihailo Pavic
Global Technology Centre, Lloyd’s Register Southampton, United Kingdom

Jinseong Kim
Ship Structure Basic Design Dep., Daewoo Shipbuilding & Marine Engineering
Jung-gu, Seoul, Korea

ABSTRACT

This paper will describe some learning of practitioners involved in application of IMO Polar Code to new construction ships for Polar operations considering ship-owners and ship-operators perspectives: where Lloyd’s Register staff have acted in an advisory capacity to ship-owners and ship-operators for preparation of an operational assessment to define technical specification requirements as well as a first step of process to create an onboard Polar Water Operations Manual (PWOM) and shipbuilder perspectives where Lloyd’s Register staff have acted in an advisory capacity to shipbuilders on technical specification requirements where a Polar Ship Certificate is to be specified for a new construction ship. And the paper will conclude with a summary of a desirable, or optimal, process for consideration of Polar Code compliance in a technical specification for a new construction ship drawing on the previous sections including insights from practitioner learning from ship-owner and ship-operator as well as shipbuilder perspectives.


INTRODUCTION

With increase of shipping activities in the polar region, there has been a demand to concern of the safety of ships, operations and marine environment problem from pollution. In relation to this demand, the IMO developed the Polar Code and adopted the safety related provisions by Resolution MSC.385(94) and environment related provisions by Resolution MEPC.264(68) respectively. The Polar Code entered into force on 1st January 2017. It covers ship design, construction, ship operating, training, and documentation. As most regulations in the Polar Code are goal-based standard to satisfy functional requirements to achieve goals. In this regard, this paper is intended to introduce the Polar Code briefly and activities associated with it for ship owners and shipbuilders.