CCS Rule Change Notice For:

RULES FOR CONSTRUCTION ANDEQUIPMENT OF SHIPS CARRYING LIQUEFIED GASES IN BULK

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Beijing

Brief Introduction

The change notice includes the revision of IACS UR Z1(Rev.8, July 2020) by adding the requirements about confirming the type approval of the pressure release valve (PRV) in annual surveys, and deleting the requirements about blown through testing to the distribution piping of the dry chemical powder fire-extinguishing systems in intermediate surveys.

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PART TWO CLASSIFICATION SURVEY AND ADDITIONAL REQUIREMENTS FOR HULL STRUCTURE

Chapter A2 CLASSIFICATION AND SURVEYS

Section 3 SURVEYS

A2.3.2 Surveys after construction

A2.3.2.2 Annual surveys

(18) To examine the cargo, bunker, ballast and vent piping systems, including PRVs, vacuum relief valves,vent masts and protective screens, as far as practicable, and confirming that the PRVs are type-approved or marked with date of testing.

A2.3.2.3 Intermediate surveys

~~(5)To confirm blown through testing with dry air to the distribution piping of the dry chemical powder fire-extinguishing systems.~~

(~~6~~5) To confirm that the heating arrangements, if any, for steel structures are satisfactory.

(~~7~~6) Instrumentation and safety systems

① The instrumentation of the cargo installations with regard to pressure, temperature and liquid level is to be visually examined and to be tested by changing the pressure, temperature and level and comparing with test instruments. Simulated testing may be accepted for sensors which are not accessible or for sensors located within cargo tanks or inerted hold spaces. The testing is to include testing of alarm and safety functions.

② The piping of the gas detection system is to be visually inspected for corrosion and damage as far as practicable. The integrity of the suction lines between suction points and analyzing units is to be verified as far as possible. Gas Detectors are to be calibrated or verified with sample gases.

③ The emergency shutdown system is to be tested, without flow in the pipe lines, to verify that the system will cause the cargo pumps and compressors to stop.

(~~8~~7) Electrical equipment: Electrical equipment in gas-dangerous spaces and zones is to be examined as far as practicable with particular respect to the following:

① protective earthing (spot check);

② integrity of flameproof enclosures;

③ damage of outer sheath of cables;

④ function testing of pressurized equipment and of associated alarms;

⑤ testing of systems for de-energizing non-certified safe electrical equipment located in spaces protected by air locks, such as electrical motor-rooms, cargo control rooms, etc.;

⑥ testing of insulation resistance of circuits.

(~~9~~8) Miscellaneous

The instrumentation and safety systems for burning cargo as fuel are to be examined.