

Chief Safety Officer Decision
(Application for Substitution, Equivalency, or Exemption)

Date: 3 February 2020

C-NLOPB Reference: 2019-RQ-0074

Applicant: Stena Drilling Ltd.

Applicant Reference: SIM-RQ-019-025 Rev 1

Installation Name: MV Stena IceMAX

Authority: *Canada-Newfoundland and Labrador Atlantic Accord Implementation Act, subsection 151(1) & section 205.069*

Canada-Newfoundland and Labrador Atlantic Accord Implementation Newfoundland and Labrador Act, subsection 146(1) and section 201.66

Regulation: *Newfoundland Offshore Petroleum Installation Regulations, subsection 27*

Decision:

The Chief Safety Officer approves the Applicant's, the owner of the Stena IceMAX, proposal to use the Hi-Fog fire suppression system in the accommodation area in lieu of the requirements of *Newfoundland Offshore Petroleum Installation Regulations*, subsection 27 which states:

27 (1) *The accommodation areas in every manned installation shall be equipped with a sprinkler system that is supplied with water from:*

(a) *two dedicated pump systems connected to the water main referred to in section 24 or 25 by way of a lockable screw down non-return valve that will prevent backflow from the sprinkler system to the water main; or;*

(b) *one dedicated sprinkler pump connected to:*

(i) *the water main referred to in section 24 or 25 by way of a lockable screw down non-return valve that will prevent backflow from the sprinkler system to the water main, and*

(ii) *a pressurized fresh water tank having a volume equal to at least twice the volume of water required pursuant to subsection (2) to be supplied for a period of one minute.*

(2) *The volume of water supplied by the pump systems or pump and fresh water tank described in subsection (1) shall be at a pressure sufficient to ensure, at the level of the highest sprinkler, continuous coverage of at least 280 m² at the rate of at least 6 L/minute/m².*

(3) *The sprinkler pump required by paragraph (1)(b) shall*

(a) *serve only the sprinkler system;*

(b) *be activated automatically by a pressure drop in the system before the water in the fresh water tank is depleted; and*

(c) *be powered from at least two sources.*

(4) *When the sprinkler system is activated, an audible and visual alarm that shows the location of the activated sprinklers shall be given automatically at the fire and gas indicator panel in the control station.*

- (5)** *The sprinkler system shall be designed to prevent the passage of sea water into the fresh water tank.*
- (6)** *The sprinkler system shall be provided with at least one stop valve for every 200 sprinklers that can prevent the flow of water into those sprinklers without affecting the rest of the system.*
- (7)** *Each of the stop valves provided pursuant to subsection (6) shall be protected from accidental operation.*
- (8)** *A gauge indicating the pressure in the sprinkler system shall be fitted at each stop valve and at the control station.*
- (9)** *The sprinkler heads shall be placed in positions and spaced in a pattern that will ensure an average application rate of 6 L/minute/m² throughout each space in the accommodation areas*
- (10)** *The pump system or pump and fresh water tank required by subsection (1) shall be situated outside the accommodation areas and as far as possible from the main machinery space.*
- (11)** *The sprinkler system shall be:*
- (a)** *installed in accordance with National Fire Protection Association 13, Standard for the Installation of Sprinkler Systems; and*
 - (b)** *tested and maintained in accordance with National Fire Protection Association 13A, Recommended Practice for the Inspection, Testing and Maintenance of Sprinkler Systems.*

This Decision is effective from the date of issuance herein until the earlier of:

- a) the date a Regulation referenced herein is repealed or the date a particular subsection that is the object of a substitution or exemption being granted hereby is amended or replaced, or
- b) the date on which the CSO and /or CCO (as applicable) revokes this Decision as a result of i) any enforcement action by the Board related to this Decision or ii) new information or analysis coming to light challenging the assessment upon which this Decision was based, including but not limited to any changes to commitments made by the Applicant in its application.

For greater certainty, Chief Safety Officer will no longer have authority under the Accord Acts to grant exemptions for Part III.1 transitional regulations once they are repealed.


Chief Safety Officer