



TÜRK LOYDU

TECHNICAL CIRCULAR

Circular No: S.P 05/17

Revision:0

Page: 1

Adoption Date:Sep 2007

Related Requirement: MSC/Circ.913 and UI SC217.

Subject : Nozzles installation for fixed water based local application fire-fighting systems for use in category A machinery spaces (MSC/Circ 913).

Entry into Force Date: 01.04.2008

IMO MSC/Circular 913 paragraphs 3.4.2.1 and 3.4.2.2 in the Appendix of the Annex read:

3.4.2 The results of the tests should be interpreted as follows:

.1 Systems (utilizing a 3 x 3 nozzle grid) that extinguish fires referred to in 3.3.2.1 to 3.3.2.3 are considered to have successfully completed the protocol with the condition that the outer nozzles should be installed outside of the protected area a distance of at least 1/4 of the maximum nozzle spacing.

.2 Systems (utilizing either a 2 x 2 or 3 x 3 nozzle grid) that extinguish fires referred to in 3.3.2.3 to 3.3.2.5 are considered to have successfully completed the protocol and can be designed with the outer nozzles located at the edge of the protected area. This does not prohibit the location of the nozzles outside of the protected area.

Paragraph 3.4.2.4 in the Appendix of the Annex reads:

.4 For installations which may be adequately protected using individual nozzles or a single row of nozzles, the effective nozzle coverage (width and length) is defined as 1/2 the maximum nozzle spacing.

Interpretation:

The end nozzles of a single line of nozzles shall be positioned:

- i) outside the hazard where paragraph 3.4.2.1 is applicable, to the distance established in testing, and
- ii) at the edge or outside of the protected area where paragraph 3.4.2.2 is applicable.

A single nozzle shall be located above the fire source and at the centre of an area having dimensions D/2 x D/2.

Sketches of acceptable arrangements are shown as hereunder.

TECHNICAL CIRCULAR

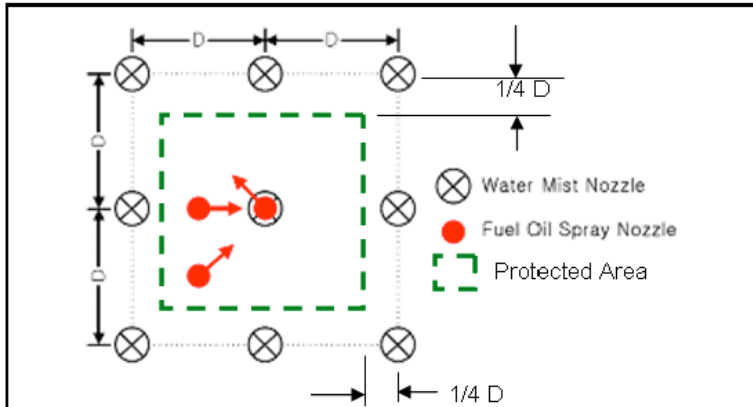
Circular No: S.P 05/17

Revision: 0

Page: 2

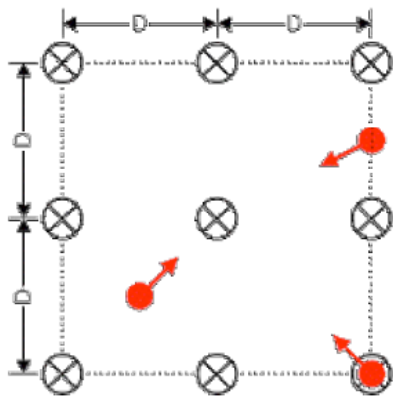
Adoption Date: Sep 2007

- a. System (utilizing a 3 X 3 nozzle grid) that extinguishes fires referred to in 3.3.2.1 to 3.3.2.3 of Appendix of Annex of MSC/Circ.913.



For this system, the outer nozzles should be installed outside of the protected area a distance of at least $1/4$ of the maximum nozzle spacing.

- b. System (utilizing a 3 X 3 nozzle grid) that extinguishes fires referred to in 3.3.2.3 to 3.3.2.5



For this system, outer nozzles can be located either at the edge of the protected area or outside of the protected area.

TECHNICAL CIRCULAR

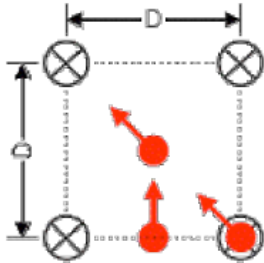
Circular No: S.P 05/17

Revision: 0

Page: 3

Adoption Date: Sep 2007

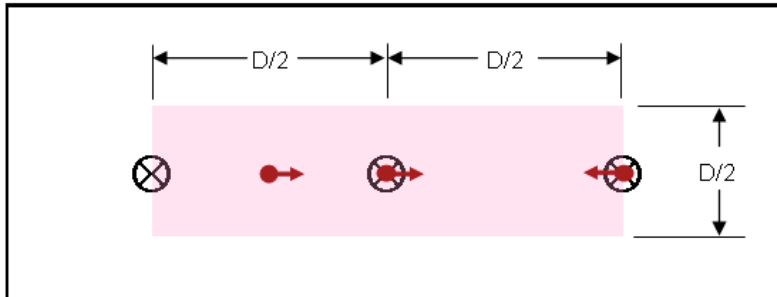
- c. **System (utilizing a 2 X 2 nozzle grid) that extinguishes fires referred to in 3.3.2.3 to 3.3.2.5**



For this system, outer nozzles can be located either at the edge of the protected area or outside of the protected area.

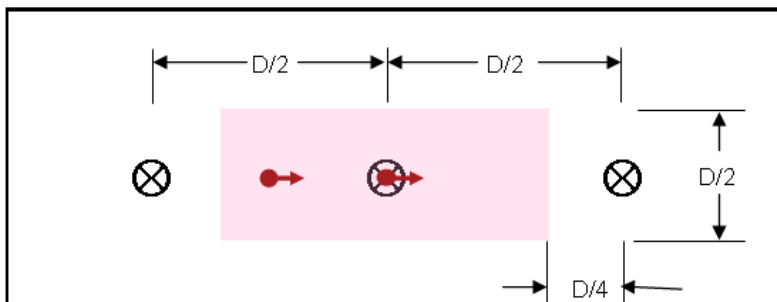
- d. **A single row of nozzles**

- i) **System that extinguishes fires referred to in 3.3.2.3 to 3.3.2.5**



For this system, outer nozzles should be placed at least at the edge of the protected area.

- ii) **System that extinguishes fires referred to in 3.3.2.1 to 3.3.2.3**



For this system, the outer nozzles should be placed outside of the protected area a distance of at least 1/4 of the maximum nozzle spacing.

TECHNICAL CIRCULAR

Circular No: S.P 05/17

Revision: 0

Page: 4

Adoption Date: Sep 2007

e. Single nozzle

