

Requested by

RG Systems

Industrial Area Villalonquéjar Number 6 Merindad de Montija Street, Burgos, SPAIN

Order

1 June 2009 / José Ignacio Melgosa (VTT-V-37976-09)

Handled by

VTT Technical Research Centre of Finland P.O.Box 1000, FI-02044 VTT, Finland

Contact person: Peter Grönberg

Task

Preliminary evaluation of the extinguishing effectiveness of the RG Systems fire protection system for local applications in machinery

spaces according to IMO MSC/Circ.913

Date of test

19 - 24 October, 2007.

The product tested RG Systems water mist fire protection system, RG Systems EMM-523856A

nozzles.

Test method

IMO MSC/Circ.913 Guidelines for the approval of fixed water-based local application fire-fighting systems for use in category A machinery spaces with deviations listed in Chapter 4 of this test report.

Test site

VTT large fire test hall.

Summary

This report describes six preliminary fire extinguishing tests that were conducted applying the test procedures of the IMO MSC/Circ.913 on the guidelines for approval of fixed water-based local application fire-fighting systems. The tested nozzle type was RG Systems EMM-523856A. The tests do not represent a full test series and can therefore not be held as official tests.

The nozzle EMM-523856A was tested for protection of 6 MW test spray fires between 1.5 m and 2 m from the nozzle grid, with 4 m nozzle spacing and a minimum pressure of 100 bar at the nozzles.

Espoo, 3 July 2009

Kimmo Kaukanen

Team Leader

Peter Grönberg

Research Scientist

Distribution

Client

Original

VTT/Archives

Original