



Offshore and Maritime Industry Testing

Fire test for oil & gas industry

FIRE RESISTANCE

DIVISIONS ACCORDING TO IMO FTP CODE

To ensure compartmentalisation of vessels, decks and bulkheads need to meet certain demands: for instance, AO and A60 are well known concepts.

Efectis can provide investigation on a state of the art furnace in order to prove the performance according to the IMO FTP-code. Depending on the chosen performance requirement the specimen can be subjected to a standard fire curve (A-class, B-class and D-class divisions) or a hydrocarbon curve (H-class division).

If a performance is required of a deck or bulkhead, the same is required for doors, windows or penetrations in this division. We can test these for you, and advise you with regard to the design test set-up and process.



Penetration through a bulkhead

ACCREDITATION

The tests will be realized under ISO 17025 accreditation, with or without witnessing from third party organizations (such as class agencies).

Consultancy and engineering services are realized under ISO 9001 certification.

Efectis' laboratories are recognized by IMO and the US Coast Guard.

JET FIRE

JET FIRE STANDARD ISO 22899-1

The jet fire standard ISO 22899-1:2007 simulates the thermal and mechanical loads resulting from high-pressure releases of flammable gas, pressurized liquefied gas or flashing liquid fuels.

Jet fires give rise to high convective and radiative heat fluxes as well as high erosive forces.



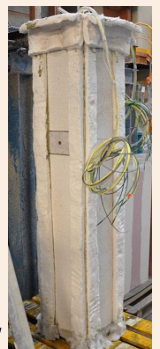
Jet-fire test

PRODUCT AND EQUIPMENT TESTING

The UL 1709 standard "Rapid Rise Fire Test of Protection Materials for Structural Steel" is one of the oldest and most frequently used furnace test standards for the Oil and Gas industry.

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The objective is to prove the functionality of a specimen while being subjected to conditions of a fire.



Calibration column according to UL 1709 standard



Efectis Nederland

Brandpuntlaan Zuid 16 | 2665 NZ Bleiswijk | The Netherlands
+31 88 3473 723 | Nederland@efectis.com
www.efectis.com

Efectis is the Expert in fire science, engineering, design and modelling, risk analysis, testing, inspection and certification.

Efectis covers all fire safety capabilities and know-how in testing and modelling around the world with offices and laboratories located in France, the Netherlands, Spain, Turkey, North Africa and the Middle-East area.