

Oil and Gas Industry Solutions

Product testing and certification, Consultancy services by Efectis

CONTEXT

Efectis is a recognized Global Expert in Fire Science. Whether to optimize safety performance, achieve regulatory compliance, lower insurance premiums or reduce building costs; our ability to virtually model and physically test provides an extensive understanding of fire behavior in complex and strategic environments for the oil and gas industry.

WHO IS CONCERNED?

- The manufacturers of construction products used in the Oil and gas industry
- Plant operators
- Insurance companies and governmental authorities



PRODUCT TESTING AND CERTIFICATION

■ Pipeline valves testing

- **Pipeline valves ISO 14313:2007 / API SPEC 6D** requirements and recommendations for the testing of ball, check, gate and plug valves for application in pipeline systems.
- **Subsea pipeline valves ISO 14723:2009** requirements and recommendations for the testing of ball, check, gate and plug valves for subsea application in offshore pipeline systems.
- **Valves ISO 10497:2010 (BS6755 part II/ API 607)** Fire type-testing requirements and test method for confirming the pressure-containing capability of a valve under pressure during and after the fire test. (Not applicable for valve actuators other than manually operated gear boxes or similar mechanisms)

■ Fire protection coatings and material testing

- FM 4970 Fire protection of steel framing members for high hazards occupancies

- FM 4971 Fire protective coatings for LPG steel storage vessels and process structures
- EN 13381-3 Testing for applied protection to concrete members
- EN 13381-4 Testing for applied passive protection to steel members
- EN 13381-8 Testing for applied reactive protection to steel members
- Jet fire test ISO 22899-1
- Glass-reinforced plastics (GRP) piping ISO 14692-2:2002 test
- UL 1709 Rapid rise fire tests of protection materials for structural steel
- API RP 2218 Fireproofing Practices in Petroleum & Petrochemical Processing Plants - Material testing and rating
- Liquid pool fire testing (burning rate, thermal radiation, heat fluxes, effect of mitigation techniques, smoke evolution, ignitability...)
- Retardant and fire suppression systems

CONSULTANCY SERVICES

- NFPA 30 Flammable and Combustible Liquids Code
 - Code consultancy
- API RP 2001 Fire Protection in Refineries
 - Fire hazards analysis
 - Protection system design
 - Maintenance and inspection
 - Training and drills for emergency responders
- API RP 2218 Fireproofing Practices in Petroleum and Petrochemical Processing Plants
 - Fire proofing needs, analysis and design
 - Equipment inspection
- API RP 2030 Application of Fixed Water Spray Systems for Fire Protection in the Petroleum and Petrochemical Industries
 - Protection system design

WHY WORKING WITH EFACTIS?

We provide all the necessary services and support to our customers while also providing the highest level of assurance. Working with Efectis also means taking advantage of:

- Comprehensive product and testing knowledge with over 60 years of experience
- More than 10 years of experience as notified body for construction products certification
- A well established brand name and services portfolio
- An excellent customer track record in many countries
- Complete range of fire and non-fire testing capacities
- Dedicated highly qualified and multilingual project managers

ACCREDITATION

Product testing is realized under ISO 17025 accreditation, with or without witnessing from third party organisms (DNV, Lloyd's,...).

Product certification is realized under ISO 45011 accreditation. Consultancy and engineering services are realized under ISO 9001 certification.



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Efectis is a fire science company and covers all fire safety expertise in testing, modeling, certification and inspection around the world.

To always offer safer life environments, the Efectis teams expand their skills to other safety domains such as structures integrity, pathologies assessments of materials, components and systems, life prediction and durability for new and ancient buildings, monuments and infrastructures.

Efectis Group. Safety issues. Solved.