

# ISO 19901-2:2004, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 2: Seismic design procedures and criteria



ISO 19901-2:2004 contains requirements for defining the seismic design procedures and criteria for offshore structures; guidance on the requirements is included. The requirements are applicable to fixed steel structures and fixed concrete structures. The effects of seismic events on floating structures and partially buoyant structures are also briefly discussed. The site-specific assessment of jack-ups in elevated condition is only covered in ISO 19901-2:2004 to the extent that the requirements are applicable. Only earthquake-induced ground motions are addressed in detail. Other geologically-induced hazards such as liquefaction, slope instability, faults, tsunamis, mud volcanoes and shock waves are mentioned and briefly discussed. The requirements are intended to reduce risks to persons, the environment, and assets to the lowest levels that are reasonably practicable. This intent is achieved by using seismic design procedures which are dependent on the platforms exposure level and the expected intensity of seismic events and a two-level seismic design check in which the structure is designed to the ultimate limit state (ULS) for strength and stiffness and then checked to abnormal environmental events or the accidental limit state (ALS) to ensure that it meets reserve strength and energy dissipation requirements. For high seismic areas and/or high exposure level fixed structures, a site-specific seismic hazard assessment is required; for such cases, the procedures and requirements for a site-specific probabilistic seismic hazard analysis (PSHA) are addressed. However, a thorough explanation of PSHA procedures is not included. Where a simplified design approach is allowed, worldwide offshore maps are included that show the intensity of ground shaking corresponding to a return period of 1 000 years. In such cases, these maps may be used with

corresponding scale factors to determine appropriate seismic actions for the design of a structure.

The Mexican offshore sector provides fairly 80 % of the oil production in the country, .. Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria, ISO TC 67/SC 7/WGISO 19901-2:2004, Petroleum And Natural Gas. Industries - Specific Requirements For Offshore. Structures - Part 2: Seismic Design Procedures And. Criteria ByThe Next Generation of Wind Energy Joao Cruz, Mairead Atcheson 200-3 (2009) Wind turbinespart 3: design requirements for offshore wind turbines. (ISO), Geneva, Switzerland ISO 19901-2 (2004) Petroleum and natural gas industriespecific requirements for offshore structures part 2: seismic designPetroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. Industries du petrole et Petroleum and natural gas industries Specific requirements for offshore structures . Part 2: Seismic design procedures and criteria. (ISO 19901-2:2017) Denna standard ersatter SS-EN ISO 19901-2:2004, utgava 1. TheISO 19901-2:2017(en). Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria.Norwegian title: Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. English title: Petroleum and Supersedes: ISO 19901-2:2004 Alert Withdrawn. Number ofPetroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. Industries du petrole etDesign PGA from the combination of seismic models and design guidelines. From these results it is observed that ISO procedure produces smaller ALE PGA values than APIDLE. International Standard ISO 19901-2, Petroleum and natural gas industries Specific requirements for offshore structures- Part 2: /seismicISO 2017. Petroleum and natural gas industries Specific requirements for offshore structures . Part 2: Seismic design procedures and criteria .. edition cancels and replaces the first edition (ISO 19901-2:2004), which has been technically.Petroleum and natural gas industries -- Specific requirements for offshore structures -- Part 2: Seismic design procedures and criteria - ISO 19901-2:2017ISO 19901-2:2017 contains ISO 19901-2:2017 contains requirements for defining the seismic design procedures and criteria for offshore Ersatter: ISO 19901-2:2004ISO 19901-2:2004(E). ISO 2004. INTERNATIONAL. STANDARD. ISO. 19901-2. First edition. 2004-11-15. Petroleum and natural gas industries . Specific requirements for offshore structures . Part 2: Seismic design procedures and criteria. Industries du petrole et du gaz naturel relatives aux structures en mer .Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria . edition cancels and replaces the first edition (ISO 19901-2:2004), which has been technically revised. ISO 19901-2:2004 (Modified), Petroleum and natural gas industriesSpecific requirements for offshore structures. Part 2:

Seismic design Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria . edition cancels and replaces the first edition (ISO 19901-2:2004), which has been technically revised. DEEPSOIL V3.7beta, User Manual and Tutorial. International Standard ISO 19901-2. 2004. Petroleum and Natural Gas Industries Specific Requirements for Offshore Structures Part 2: Seismic Design Procedures and Criteria, November. Soils and Foundations 32:173188 ISO (2004) ISO 19901-2:2004. Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. International Standards Organization ISO 19901-2:2004 (Modified), Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. FIRST EDITION the seismic design procedures and criteria for offshore structures and is a discussed. The site-specific assessment of jack-ups in elevated. ISO 19901-2:2004(en). Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. International Standard ISO 19901-2:2004. ISO International Organization for Standardization. 2006. Europastandarden EN ISO 19901-2:2004 galler som svensk standard. Petroleum and natural gas industries - Specific requirements for offshore structures - Part 2: Seismic design procedures and .. Part 2: Seismic design procedures and criteria. 1 Scope. This part of ISO 19901 contains requirements for ISO 19901-2:2004(en). Petroleum and natural gas industries Specific requirements for offshore structures Part 2: Seismic design procedures and criteria. Petroleum and natural gas industries -- Specific requirements for offshore structures for offshore structures -- Part 2: Seismic design procedures and criteria.