

# Sector specific standards

## **Automotive application field**

ISO/DIS 26262: Road vehicles – Functional safety

adaptation of IEC 61508 specific to the application sector of electrical and electronic systems in the road vehicle industry

## **Railways application field**

CENELEC EN 50128: Railway applications — Software for railway control and protection systems

developed by the European Committee for Electrotechnical Standardization (CENELEC), is part of a series of standards that represent the railway application-specific interpretation of the IEC 61508 standard series

## **Airborne Application Field**

RTCA/DO-254

formally recognized by the Federal Aviation Agency (FDA) in 2005 as a means of compliance for the design of complex electronic hardware in airborne systems. Published by RTCA (Radio Technical Commission for Aeronautics )

## **The Nuclear Power Plant Application Field**

IAEA safety standards series (INTERNATIONAL ATOMIC ENERGY AGENCY )  
NS-G-1.3 Instrumentation and Control Systems Important to Safety in Nuclear  
Power Plants: Safety Guide

## **Process industries**

The process industry sector includes many types of manufacturing processes, such as refineries, petrochemical, chemical, pharmaceutical, pulp and paper, and power.

IEC 61511 is a technical standard which sets out practices in the engineering of systems that ensure the safety of an industrial process through the use of instrumentation.

## **Machinery**

IEC 62061 is the machinery-specific implementation of IEC 61508.

It provides requirements that are applicable to the system level design of all types of machinery safety-related electrical control systems and also for the design of non-complex subsystems or devices.