

Nuclear Energy, Power Plant, and Reactor Sourcebook: NRC Glossary of Risk-Related Terms in Support of Risk-Informed Decisionmaking (2013) and NRC Safety Culture Common Language

U.S. Government, Nuclear Regulatory Commission (NRC)



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This is a print replica reproduction of two important documents from the Nuclear Regulatory Commission (NRC): NRC Glossary of Risk-Related Terms in Support of Risk-Informed Decisionmaking (2013) and NRC Safety Culture Common Language. Together, they provide very useful information for anyone trying to understand the terms used in the commercial nuclear power industry.

Bonus documents are also included: Citizen's Guide to U.S. Nuclear Regulatory Commission Information, 2016 Congressional Budget Justification, Status Report on U.S. Nuclear Energy Program.

The policy statement on the "Use of Probabilistic Risk Assessment (PRA) Methods in Nuclear Regulatory Activities" (Ref. 31) expressed the Commission's belief that the use of PRA technology in U.S. Nuclear Regulatory Commission (NRC) regulatory activities should be increased. Consequently, the NRC carried out numerous risk-informed activities in all areas of NRC regulation. With increased risk-informed activities came the recognition that the agency could enhance regulatory stability and efficiency if it implemented the many potential applications of risk information in a consistent and predictable manner. An essential part of consistent and predictable implementation is the use of consistent terminology to ensure accurate communication and transfer of information. Further, the NRC recognizes that some risk-related terms have been used in ambiguous ways by practitioners. The increased development of guidance documents, regulations, and procedures related to risk-informed activities makes the fundamental understanding of these risk-related terms more imperative. Consistent terminology is essential to the appropriate implementation of risk-informed activities and the communication between the NRC and its stakeholders. It allows practitioners to eliminate communication issues and avoid unnecessary discussions that may have been erroneously perceived as technical issues. Therefore, a glossary with agreed-upon definitions of risk-informed related terms is an essential tool for future risk-informed activities. This glossary addresses risk-related terms used in the context of risk associated with a reactor of a nuclear power plant. A glossary with definitions of riskinformed-related terms is an essential tool for risk-informed activities. A glossary provides clarity on the meaning of many terms. For terms that are context or scope dependent, a single definition may not be appropriate, but a discussion on the use of these terms in different contexts will be helpful. This NUREG report identifies and defines terms used in risk-informed activities related to commercial nuclear power plants. It provides a single source in which these terms can be found. A major goal of the glossary is to reduce ambiguity in the definition of terms as much as possible, so that a common understanding can be achieved that will facilitate communication on risk-informed activities.

Safety Culture Common Language - The importance of a healthy nuclear safety culture has been demonstrated by a number of significant events in the United States and throughout the world. Use of consistent definitions and terms to describe a model safety culture is a first step in ensuring consistent development, implementation, and monitoring of safety culture. This report documents the outcomes of public workshops to develop a common language to describe safety culture in the nuclear industry. These

workshops, held in December 2011, April 2012, November 2012, and January 2013, included panelists from the U.S. Nuclear Regulatory Commission (NRC), the nuclear power industry, and the public. This report presents a suggested common language, agreed upon by NRC staff and the nuclear industry for classifying and grouping traits and attributes of a healthy nuclear safety culture.



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