

ISO 14224:2006, Petroleum, petrochemical and natural gas industries - Collection and exchange of reliability and maintenance data for equipment



ISO 14224:2006 provides a comprehensive basis for the collection of reliability and maintenance (RM) data in a standard format for equipment in all facilities and operations within the petroleum, natural gas and petrochemical industries during the operational life cycle of equipment. It describes data-collection principles and associated terms and definitions that constitute a reliability language that can be useful for communicating operational experience. The failure modes defined in ISO 14224:2006 can be used as a reliability thesaurus for various quantitative as well as qualitative applications. ISO 14224:2006 also describes data quality control and assurance practices to provide guidance for the user. Standardization of data-collection practices facilitates the exchange of information between parties, e.g. plants, owners, manufacturers and contractors. ISO 14224:2006 establishes requirements that any in-house or commercially available RM data system is required to meet when designed for RM data exchange. Examples, guidelines and principles for the exchange and merging of such RM data are addressed. ISO 14224:2006 recommends a minimum amount of data that is required to be collected and focuses on the two main issues: data requirements for the type of data to be collected for use in various analysis methodologies and standardized data format to facilitate the exchange of reliability and maintenance data between plants, owners, manufacturers and contractors. The following main categories of data are to be collected: equipment data, e.g. equipment taxonomy, equipment attributes; failure data, e.g. failure cause, failure consequence; maintenance data, e.g. maintenance action, resources used, maintenance consequence, down time.

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