

ISO 19014-1:2018 (E)

Earth-moving machinery — Functional safety — Part 1: Methodology to determine safety-related parts of the control system and performance requirements

Contents

| | |
|---------|--|
| | Foreword |
| | Introduction |
| 1 | Scope |
| 2 | Normative references |
| 3 | Terms and definitions |
| 4 | Method to determine MPLr for SRP/CS of earth moving machinery |
| 4.1 | General |
| 4.2 | Machine Control System Safety Analysis (MCSSA) method |
| 5 | Requirements for immediate action warning indicators |
| 5.1 | General |
| 6 | Performance level determination procedures |
| 6.1 | General |
| 6.2 | Participants in the risk assessment |
| 6.3 | Assessment and classification of a potential harm |
| 6.4 | Assessment of exposure in the situation observed |
| 6.5 | Assessment of a possibility to avoid harm |
| 6.6 | Determining the required MPL |
| Annex A | (informative) Process flow chart for machinery risk assessment |
| Annex B | (informative) Table of warning/operation indicators |
| Annex C | (informative) Example of MCSSA Process |
| Annex D | (informative) List of possible safety control systems (SCS) of earth moving machines |

Page count: 20