



Designation: F2974 – 17

Standard Guide for Auditing Amusement Rides and Devices¹

This standard is issued under the fixed designation F2974; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide establishes guidelines for auditing conformance to ASTM Committee F24 Standards during an audit of an amusement ride or device within a defined scope.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

F747 Terminology Relating to Amusement Rides and Devices

F770 Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices

F1159 Practice for Design of Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards

F1193 Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices

F2291 Practice for Design of Amusement Rides and Devices

3. Terminology

3.1 Reference Terminology **F747**.

4. Significance and Use

4.1 The purpose of this guide is to establish guidelines for audits of amusement rides and devices.

¹ This guide is under the jurisdiction of ASTM Committee F24 on Amusement Rides and Devices and is the direct responsibility of Subcommittee F24.30 on Maintenance and Inspection.

Current edition approved April 1, 2017. Published April 2017. Originally approved in 2013. Last previous edition approved in 2015 as F2974 – 15. DOI: 10.1520/F2974-17.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

4.2 An audit can include inspections, evaluations, or examinations during the design, manufacturing, installation, commissioning, operation, or major modification of an amusement ride or device.

4.3 When audits are performed, they shall occur during the relevant stages of an amusement ride or device's design, manufacture, installation, commissioning or major modification. This guide does not require recurring design, manufacturing, installation, commissioning, or major modification audits.

5. General

5.1 Auditor(s) shall have sufficient relevant education, experience, and training to properly audit an amusement ride or device as defined in this standard.

5.2 The auditor must prepare for and comply with all personal health and safety requirements as they pertain to the scope of the audit.

5.3 Inspection tools, test equipment, gauges, or other devices shall be in proper working order and, where applicable, calibrated. Calibration shall be established by a record of calibration showing calibration traceable to accepted standards specific to the equipment used (for example, AISC, ASME, ANSI, etc.).

5.4 Audit recording formats shall be mutually agreed upon by auditor and auditee before the audit is initiated.

5.4.1 Actual findings or statements, or other information that is related to the audit(s) shall be included in the audit record(s). Audit record(s) may include but not limited to, written documentation, photo(s), video(s), spreadsheet(s), and list(s).

5.4.2 The auditor's name(s) and date(s) of the audit(s) performed shall be included in the auditing record(s).

6. Design Audit Program

6.1 When performing an audit of a new design of an amusement ride or device, the auditor shall review conformance to Practice **F2291** or the applicable F24 standard in effect at the time of the design.