

Standard Guide for Auditing Amusement Rides and Devices¹

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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.

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.

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.).

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.

7. Manufacturing Audit Program

7.1 When performing an audit of the manufacturing of an amusement ride or device, the auditor(s) shall review conformance to Practice F1193.

8. Installation and Commissioning Audit Program

8.1 When performing an audit of the installation and commissioning of an amusement ride or device, the auditor(s) shall:

8.1.1 Perform an inspection of equipment condition per Section 9 through Section 13 of Practice F1193.

8.1.2 Review conformance to Practice F770.

9. Major Modification Audit Program

9.1 When performing an audit of the design of an amusement ride or device, the auditor shall review conformance that

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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.