

## **Subchapter 6.2. Permanent Amusement Ride Safety Orders**

### **Article 1. Application and Definitions**

#### **§3195.1 Application.**

(a) This Subchapter, consisting of eight Articles, governs permanent amusement rides operated anywhere in the State of California:

Articles 1 and 8 apply to all permanent amusement rides described in Articles 2 through 6.

Article 2 applies to all permanent amusement rides unless specifically modified or supplemented by Articles 3 through 6.

Article 3 applies to Aquatic Device and Standing Wave Systems.

Article 4 applies to Bumper Boats.

Article 5 applies to Aerial Adventure Rides or Devices

Article 6 applies to Amusement Railways, Devices and Facilities.

Article 7 applies to Amusement Rides and Devices that are Outside the Purview of Other ASTM F24 Design Standards

(b) For the purposes of Articles 2 through 7, the following ASTM Standards on Amusement Rides and Devices are hereby incorporated by reference. In the event that a provision in any of the referenced standards conflicts with a section of subchapter 6.2, subchapter 6.2, or any subsection therein shall govern.

(1) ASTM F 770-24 "Standard Practice for Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices," Sections 4 through 10 and Sections 12 through 13.

(2) ASTM F 1159-16e1 "Standard Practice for Design of Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards", Section 1 through 16.

(3) ASTM F 1193-24e1 "Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices", Sections 1 through 10.

(4) ASTM F 2291-24 "Standard Practice for Design of Amusement Rides and Devices", Sections 1.3 through 3.1.22, Sections 3.1.24 through 5.6.1, Sections 5.6.3 through 5.6.4.3 and Sections 6 through 22.

(5) ASTM F 2376-24 "Standard Practice for Classification, Design, Manufacture, Construction, and Operation of Water Slide Systems", Sections 1 through 1.3.4, Sections 1.5 through 7.4.8 and Sections 7.6 through 9.

(6) ASTM F 2460-19 "Standard Practice for Special Requirements for Bumper Boats", Sections 1 through 8.

(7) ASTM F 2959-24 "Standard Practice for Aerial Adventure Courses", Sections 2 through 5.8.2.6, Sections 5.10 through 6, Sections 8 through 11.5.6.4 item (3) and Sections 11.6 through 13.

(8) ASTM F 2960-23 "Standard Practice for Permanent Amusement Railway Ride Tracks and Related Devices", Sections 1 through 10.

(9) ASTM F 3054-18 "Standard Practice for Operations of Amusement Railway Rides, Devices and Facilities", Sections 1 through 5.

(10) ASTM F 3133-19 "Standard Practice for Classification, Design, Manufacture, Construction, and Operation of Stationary Wave Systems", Sections 1 through 8.

(c) For the purposes of Article 3, the 2018 Model Aquatic Health Code, 3<sup>rd</sup> Edition Code Language Sections 5.7.2 through 5.7.6.2, Sections 5.9.2.4 through 5.9.2.4.2.3.1, Sections 6.2 through 6.2.2.4.3, 6.3.2 through 6.3.4.5.6.2, and Section 6.4.1.6 excluding item (15) are hereby incorporated by reference. In the event that a provision in any of the referenced standards conflicts with a section of subchapter 6.2, subchapter 6.2, or any subsection therein shall govern.

(d) These orders do not replace or supersede any existing Safety Orders affecting employee safety.

(e) All existing permanent amusement rides installed before the date of these orders shall comply with the general design, engineering and manufacturer specifications in effect prior to these Orders.

(f) All permanent amusement rides shall comply with the testing, operation, maintenance and training requirements specified in Articles 2 through 6.

(g) All major modifications to any permanent amusement ride shall meet the requirements of Title 8 CCR 344.8(b)

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New subchapter 6.2 (articles 1-4, sections 3195.1-3195.14), article 1 (sections 3195.1-3195.2) and section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

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## **§3195.2. Definitions.**

(a) In addition to the definitions given in this section, the definitions found at Section 344.6 of this Title also apply. Among others, the following terms are defined in Section 344.6: "as-built document," "licensed engineer," "new permanent amusement ride," "owner or operator," and "permanent amusement ride."

(b) An "Aerial Adventure Ride or Device" is a permanent amusement ride or device such as, but not limited to: a zip line or a leap of faith, which may be stand-alone rides or devices or may be part of a larger system of devices, such as within an aerial adventure course.

(c) An "amusement ride incident" is any event, failure, or malfunction of a permanent amusement ride that:

(1) Results in the ride being closed to patrons for more than 12 consecutive hours; or

(2) Reasonably and substantially appears to have an impact on the safety of patrons.

(d) An "aquatic device" is a permanent amusement ride that involves the purposeful immersion of the patron's body partially or totally in the water. A permanent amusement ride which involves only incidental patron water contact, or which uses water primarily as a medium for carrying a conveyance vehicle, e.g., a log flume boat ride or a spill water boat ride, is not an aquatic device.

(e) "Authorized person" means a person who:

(1) Has been authorized by the owner or operator, in a determination which defines the specific duties and rides to which the authorization pertains, to attend, operate, inspect, test, or perform maintenance on permanent amusement rides and associated equipment;

(2) Has successfully completed training (see Section 3195.6) in the duties to which the authorization pertains;

(3) Performs his or her duties within the scope of the authorization; and

(4) Is capable of reading and comprehending all written instructions, including those on operator controls, that are required to be available to or to be in view of a person performing duties within the scope of the authorization.

(f) A "Control Access System" is a device, barrier or other mechanism that prohibits unauthorized activation of a ride or device control system.

(g) An "existing permanent amusement ride" is either of the following:

(1) A permanent amusement ride that has been previously approved to operate by the Division and was placed into operation and opened to the public for the first time prior to the effective date of these orders; or

(2) A planned permanent amusement ride that has been substantially designed, manufactured, fabricated, constructed or installed prior to the effective date of these orders.

(h) A "facility" means any single property or grouping of contiguous properties under the control of the owner or operator that contains one or more permanent amusement rides.

(i) A "flume" is a single descending pathway in or on a water slide.

(j) "Manufacturer documentation" means any writing originating from or created by the manufacturer and/or designer pertaining to a permanent amusement ride, including, but not limited to, information regarding fabrication, quality assurance, quality control, testing, engineering design, engineering analysis, hazard analysis, designer documentation, schematics, drawings, diagrams, calculations, charts, graphs, manuals, records, inspection reports, instructions, modifications, bulletins, communication or other materials that would include graphic, photo graphic, video, audio, film, electronic or other similar content.

(k) A "nonswimmer" means a person who is a weak or inexperienced swimmer or a person who cannot swim.

(l) A "patron" means a member of the public who is not acting as an employee or as a consultant, contractor, or other agent of the owner or operator.

(m) A "Permanent Amusement Railway Ride" is an amusement ride that may have multiple vehicles linked together, at least one of which has on board mechanical propulsion that has an on board operator(s), utilizing flanged wheels on railroad type rails with a gauge of 12 inches or greater, that is insular to national regulations.

(n) "Public operation" means operation of an amusement ride with one or more patrons on board.

(o) A "Patron Carrying Device" is that element of a ride which carries or supports the patron and includes but is not limited to cars, seats, gondolas and harnesses.

(p) "Patron Containment" means features of a ride or device that accommodate the patron for the purpose of riding the ride or device. This includes, but is not limited to, seats, side walls, bulkheads, hand holds, restraint systems, cages or doors.

(q) A "ride" means a permanent amusement ride.

(r) A "service proven permanent amusement ride" is a permanent amusement ride that was in operation and open to the public in a facility located outside of California prior to July 12, 2003, and meets all of the following requirements:

(1) Unit(s) have been in service for a minimum of 10,000 hours; and

(2) Unit(s) that have been in service have done so without any design related failures or design related safety issues that have not been mitigated.

A "service proven permanent amusement ride" does not include rides engineered for a particular location.

(s) A "speed slide" is a water slide where the patron(s) achieve a velocity of 25 ft/s or more during the course of the ride.

(t) A "splash pool" is a pool of water at the base of a flume, which constitutes the endpoint of a patron's travel along the flume.

(u) A "surrogate testing apparatus" is an object or device intended to substitute a specific range or multiple ranges of patron sizes. This object or device is intended to be used for testing the performance or operation of an amusement ride prior to testing or operation with riders.

(v) A "water slide" is an aquatic device using flowing water to provide low friction so that patrons can slide along a flume. There may be one or more flumes used on a water slide.

(w) A "Zip Line" is a permanent amusement ride, where patron(s) are suspended and traverse over a span by means of a mechanical device such as a pulley, trolley or other type of carrier.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3, 7921 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

**Subchapter 6.2. Permanent Amusement Ride Safety Orders**  
**Article 2. Requirements Applicable to Permanent Amusement Rides**  
**except as modified and/or supplemented by Articles 3 through 6 of this**  
**Title.**

**§3195.3 Application.**

(a)The requirements contained in this Article apply to all permanent amusement rides unless specifically modified by Articles 3 through 7 of this Title.

(b)Permanent amusement rides installed on or after the effective date of these orders shall comply with subchapter 6.2 Articles 1, 2 and 8 of these regulations and the applicable modifications and/or supplementations in Articles 3 through 7 of these regulations.

(c)Existing permanent amusement rides installed before the effective date of these orders shall comply with Section 3195.4: General Design and Manufacture of the 6.2 Permanent Amusement Ride Safety Orders effective in July of 2003.

(d)All fencing, guardrails, handrails, gates and walkways installed or replaced after the effective date of these orders shall conform to the specifications of ASTM F 2291-19 Standard Practice for Design of Amusement Rides and Devices, Section 14.



### **§3195.3.1 Required Documentation.**

(a) For each permanent amusement ride in public operation, the owner or operator shall maintain at the facility the following documentation:

(1) All required manufacturer documentation indicating that the design and manufacture of the ride is in compliance with ASTM F 2291-24. Such documentation shall include but is not limited to: design criteria and ride analysis, design calculations, patron restraint, clearance envelope, acceleration limits, loads and strengths, hydraulic systems and equipment, pneumatic systems and equipment, safety related control systems, electrical systems and equipment, electrical requirements, mechanical systems and equipment, fencing, welding, fasteners and operator controls.

Exception No. 1: Existing rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven rides only, the owner or operator shall comply by maintaining all documentation reasonably available from the manufacturer and by developing and maintaining the documentation required by subsection 3195.4(c) of these Orders.

(2) The manufacturer's developmental and installation testing procedures conforming to the specifications of ASTM F 1193-24e1 Sections 5.1 through 5.2.1.3.

Exception No. 1: Existing rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven rides only, if the complete documentation meeting the requirements of subsection (a)(2) does not exist, the owner or operator shall comply with subsection (a)(2) by developing and maintaining effective installation and performance testing procedures that conform to the specifications of ASTM F 1193-24e1 Sections 5.2 through 5.2.1.3.

(3) The manufacturer's operational and nondestructive testing procedures that conform to the specifications of ASTM F1193-24e1 Sections 6.1.4.4(4) and 6.1.5.1.

Exception No. 1: Existing rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven rides only, if complete documentation meeting the requirements of subsection (a)(3) does not exist, the owner or operator shall comply with subsection (a)(3) by developing and maintaining documentation containing effective operational and nondestructive testing procedures that conform to the specifications of ASTM F 1193-18 Sections 6.1.4.4 and 6.1.5.1.

(4) The manufacturer documentation regarding the quality assurance program that conforms to the specifications of ASTM F 1193-24e1

Exception No. 1: Existing rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven rides only, if complete documentation meeting the requirements of subsection (a)(4) does not exist, the owner or operator shall comply with subsection (a)(4) by developing and maintaining documentation containing effective operational and nondestructive testing procedures that conform to the specifications of ASTM F 1193-24e1 Section 4.

(5) The manufacturer originating maintenance instructions for the ride that conform to the specifications of ASTM F 1193-24e1 Section 6.

Exception No. 1: Existing rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven rides only, if complete documentation meeting the requirements of subsection (a)(5) does not exist, the owner or operator shall comply with subsection (a)(5) by developing and maintaining documentation containing effective maintenance instructions that conform to the specifications of ASTM F 1193-24e1 Section 6.

(6) The manufacturer originating operational instructions for the ride that conform to the specifications of ASTM F 1193-24e1 Sections 6 and 7.

Exception No. 1: Existing rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven rides only, if complete documentation meeting the requirements of subsection (a)(6) does not exist, the owner or operator shall comply with subsection (a)(6) by developing and maintaining documentation containing effective operational instructions that conform to the specifications of ASTM F 1193-24e1 Sections 6 and 7.

(7) All manufacturer documentation received in accordance with ASTM F 1193-24e1 Section 8 Manufacturer Supplemental Bulletins Requirements.

(8) Additional information that may be required by the manufacturer or by the Division.

(b) The owner or operator shall maintain an English language copy of all documentation listed in subsection (a) at the facility and shall make it available to the Division upon request.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3, 7921 and 7923, Labor Code.

HISTORY 1. New article 2 (sections 3195.3-3195.9) and section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

### **§3195.4. General Design and Manufacture.**

(a) No new permanent amusement ride shall be opened to the public unless it has been designed and manufactured in conformance with the specifications of ASTM F 2291-24 and ASTM F 1193-24e1.

(b) For all new and existing permanent amusement rides: When an Owner or Operator identifies an unsafe condition related to the design or manufacture of a ride which constitutes an imminent hazard or is otherwise unsafe for patrons, the Owner or Operator shall do the following:

(1) Not operate the ride or portion of the ride affected until the condition which is unsafe for patrons has been abated.

(2) Immediately notify the relevant designer(s) and/or manufacturer(s).

(3) Document and maintain all relevant information concerning the unsafe condition.

(c) For service proven rides, the ride shall be certified by a licensed engineer who has completed a ride analysis that contains sufficient detail to be acceptable to the Division and includes, but is not limited to all of the following:

(1) Design and structural calculations

(2) Factors of safety, including identifying areas of significant strain and fatigue, particularly if the ride has a high number of cycles and or number of operating hours.

(3) Performance characteristics

(4) Fatigue life

(5) Forces on patrons

(6) Restraint and envelope analysis per ASTM F 2291-24e1 Section 6

(7) Applicable testing per ASTM F 1193-24e1 Sections 5 and 6

(d) The Owner or Operator shall maintain an English language copy of all documentation and records listed in subsections (a) through (c) of this section at the facility and shall make it available to the Division upon request.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3, 7921 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24)

### **§3195.5. Required Testing.**

(a) Before a permanent amusement ride is placed into service for the first time or after a major modification, the Owner or Operator shall conduct or cause to be conducted all installation, performance, operational, and non-destructive testing that demonstrate the safe operation of the ride in conformance with Section 3195.3.1(required documentation) and ASTM F 1193-24e1 Sections 5 and 6.

(b) At least 30 days prior to commencing installation, performance or operational testing as required by subsection(a), the Owner or Operator shall notify the Division in writing of the date, time and location of the testing.

(c) All installation and performance testing on permanent amusement rides and devices shall be observed by a Division QSI, as reasonably determined by the Division.

(d) No permanent amusement ride shall be operated with patrons on board unless the Owner or Operator has conducted or caused to be conducted all periodic operational and nondestructive testing in conformance with ASTM F 1193-24e1 Section 6 as required by the manufacturer or a licensed engineer.

(e) Single or dual component harnesses that provide full body containment used on permanent amusement rides shall be tested in the configuration in which they will be used for construction and performance.

(1) This testing shall at a minimum, include an upright and inverted position in accordance with ANSI Z359.1, NFPA 1983, OSHA 29 CFR PART 1926.502(d), UIAA 105, ASTM F-1722, EN 12277 or an equivalent test method specified by another recognized standard.

(A) The results of these tests shall be made available to the Division upon request.

Note: Harnesses specified in this subsection refer to those designed and manufactured for fall arrest, fall restraint or positioning, and can include similar devices and configurations as reasonably determined by the Division.

(f) All testing performed by the owner or operator pursuant to this section shall be conducted by an authorized person.

(1) Training shall be documented in accordance with ASTM F 770-24 Section 9 and Section 3195.33(a)(1) of these Orders.

(g) Where testing data is deemed insufficient for acceptance, the Division may require additional testing that is reasonably necessary.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

### **§3195.6. Maintenance, Inspection, Operation and Training Programs.**

(a) The owner or operator shall establish, implement, document and maintain an effective maintenance program. The maintenance program shall be in writing and conform to the specifications of ASTM F 770-24 Section 7 and at a minimum contain the manufacturer information required by ASTM F 1193-24e1 Section 6. Where the manufacturer's maintenance instructions do not exist or are incomplete, the owner or operator is responsible for creating and developing maintenance instructions that conform to the specifications of ASTM F 1193-24e1 Section 6.

(b) The maintenance program shall include the following:

(1) A procedure to promptly notify the relevant manufacturer(s) of any event, failure, or malfunction that may impact patron safety and document all relevant information concerning the event, failure or malfunction.

(2) Procedures for the prevention, mitigation and/or repair of corrosion or other deterioration damage.

(3) Requirements that:

(A) All parts of a permanent amusement ride shall be properly aligned and shall not have bends, cuts or distortions that exceed allowable tolerances provided by the manufacturer or licensed engineer.

(B) All fasteners, washers, holes and surfaces on a permanent amusement ride shall be meet all design tolerances and be installed per the manufacturer specifications provided per ASTM F1193-24e1 Section 6.1.2.12. or as specified by a licensed engineer.

(C) All welding and welding procedures shall be in accordance with ASTM F 2291-24 Section 15 and ASTM F 1193-24e1 Section 4.

(c) All maintenance procedures shall be readily available to all persons performing maintenance.

(d) The Owner or Operator shall establish, implement, document and maintain an effective inspection program. Inspection procedures shall conform to the specifications of ASTM F 770-24 Section 7, shall include procedures for both maintenance inspections and operations inspections, and at a minimum shall include the manufacturer information required by ASTM F 1193-24e1 Section 6. Where the manufacturer inspection instructions do not exist or are incomplete, the Owner or Operator is responsible for creating and developing inspection instructions that conform to the specifications of ASTM F 1193-18 Section 6.

(e) The inspection program shall include the following:

(1) Procedures for the inspection of the ride structure and support components for corrosion or other deterioration. These procedures shall include the frequency of inspection, a listing of areas and components to be inspected, the methods of inspection, the allowable limits of material loss and the documentation of inspections, including measurements of material thickness where necessary for effective evaluation.

(2) Procedures to be followed in the event of any unscheduled cessation of operation of the ride in conformance with ASTM F 770-24 Section 8.3. These procedures shall include a requirement that when an unscheduled cessation of operation occurs, the ride shall not be operated again with patrons on board until inspection and test operation of the ride has demonstrated that the ride is functioning properly.

(f) All inspection procedures shall be readily available to all persons performing inspections.

(g) The Owner or Operator shall establish, implement, document and maintain an effective operations program. The operations program shall be in writing and conform to the specifications of ASTM F 770-24 Section 6 and at a minimum shall include the manufacturer information required by ASTM F 1193-24e1 Section 6. Where the manufacturer operational instructions do not exist or are incomplete, the Owner or Operator shall be responsible for creating and developing operational instructions that conform to the specifications of ASTM F 1193-24e1 Section 6.

(h) The operations program shall include the following:



(1) A procedure to promptly notify the Division and the relevant manufacturer(s) of any event, failure or malfunction that may impact patron safety and document all relevant information concerning the event, failure or malfunction.

(2) Procedures to ensure that all patron restraint mechanisms are properly engaged and will safely secure patrons throughout the course of the ride.

(3) Procedures for using effective signs, videos, or other similarly effective means of advising patrons of those instructions, limitations, restrictions and warnings deemed by the Owner or Operator to be necessary for patron safety. The instructions, limitations, restrictions and warnings shall at a minimum be conspicuously posted at each rider (patron or employee) entrance to the permanent amusement ride at all times the ride is operating with patrons persons on board.

(4) Procedures to ensure the ride is not used or operated under conditions of speed, stresses, loads, or environmental conditions that are contrary to the manufacturer recommendations or, where such recommendations are not available, the engineered design.

(5) Procedures to ensure the implementation of all patron-specific safety measures necessary for the operation of the ride in a manner that is safe for all patrons. These procedures shall at a minimum, implement all specific manufacturer recommendations provided pursuant to the requirements of ASTM F 1193-24e1 Sections 6 and 7, to the extent such recommendations exist. Patron-specific safety measures shall consist of provisions for a patron's use of the ride, provision of warnings to patrons, or both in combination, to the extent reasonably necessary to protect patrons. Factors that may result in the need for patron-specific safety measures include, but are not limited to weight, body size or shape, age, disability, health, attire, hair length, articles of clothing, and/or accessories.

Note: This subsection is not intended to require an Owner or Operator to admit a patron to a ride if such admission will jeopardize the safety of that patron or other persons.

(6) All operational procedures shall be readily available to all persons performing operational duties.

(i) The Owner or Operator shall establish, implement, document and maintain an effective training program for all persons performing maintenance, inspection and/or operational procedures. The training program shall be in writing and shall at a minimum conform to the specifications of ASTM F 770-24 Section 9 and shall:

(1) Include a manual containing the training subject matter;

(2) Specify the planned length of initial and refresher training;

(3) Specify the frequency of refresher training;

(4) Include documentation of the training, including the length of the training.

(j) Only authorized persons shall perform any maintenance, inspection and/or operational activity on a permanent amusement ride.

(k) At all times while the facility is open to the public, personnel shall be located around the facility who are trained and available to render first aid and cardiopulmonary resuscitation (CPR). These personnel shall:

(1) Be in sufficient numbers to ensure they are readily available to render first aid and CPR to patrons as needed;

(2) Have current certification in first aid and CPR from the American Red Cross or another nationally recognized organization; and

(3) Have immediate access to first aid and CPR supplies that meet the requirements of Section 3400.

(l) The Owner or Operator shall maintain at the facility all documentation required by this section in the English language and make it available to the Division upon request.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24)

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**§3195.7. Physical Information and Adherence to General Safety-Related Operating Parameters.**

(a) The owner or operator shall not operate any permanent amusement ride with patrons on board in a manner inconsistent with the specifications of the documentation required by Section 3195.3.1.

(b) All permanent amusement rides shall be identified by a registration number, which shall be provided by the Division. This registration number shall be kept with other pertinent records for the amusement ride and shall be permanently affixed by a Division representative to the ride.

(c) All patron carrying devices shall be labeled or marked, on permanent amusement rides with multiple patron carrying devices, to facilitate identification during maintenance, inspection and/or operation. The nature of the identification shall be in any form chosen by the owner or operator so long as reference can be established to each patron carrying device. On permanent amusement rides with multiple patron carrying devices encompassing two or more seats, the labeling or marking of individual seats is not required.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

## **§3195.8. Motion Restriction and Other Specific Hazard Control Measures.**

### (a) Emergency Brakes and Devices.

Ride conveyance vehicles shall be provided with emergency brakes or other equally effective emergency stopping controls, if upon failure of normal stopping controls, collision may reasonably be expected to occur and result in patron injury or equipment damage. Low speed vehicles designed for controlled collisions, such as bumper cars, do not require emergency stopping controls.

### (b) Anti-Rollback Controls.

Each permanent amusement ride with a passenger conveyance vehicle that traverses an inclined track shall be provided with automatic anti-rollback controls, unless such controls would conflict with manufacturer recommendations.

### (c) Speed Limiting Devices and Systems.

(1) Each permanent amusement ride capable of exceeding its maximum design operating speed shall be provided with a speed-limiting device or system to ensure that the ride cannot exceed that speed at any time while patrons are on board.

#### (2) Mechanical Governors.

(A) If a mechanical governor with an adjustable setting is used as a speed-limiting device, the adjusting mechanism shall be sealed so that the speed setting cannot be changed without breaking the seal.

(B) If the seal is broken, the ride shall not be operated with patrons on board and the speed setting shall be readjusted and resealed per manufacturer specifications prior to reopening the ride to patrons.

#### (3) Other Speed Limiting Devices or Systems.

If a speed limiting device or system other than a mechanical governor is used to control the maximum speed of a permanent amusement ride, the device or system shall include safeguards to prevent the ride operator from being able to alter the maximum speed setting.

(d) Signal Systems.

(1) The Owner or Operator shall establish, document, implement and maintain signal systems. Procedures for the signal systems shall be in writing and shall, at a minimum include:

(A) The procedural steps for controlling the dispatching of rides as necessary to prevent collision due to any failure of the ride or of a ride unit to clear a stopping point.

(B) The procedural steps for controlling the operation of the ride so that neither starting nor stopping the ride results in an unsafe condition. In the case of starting the ride, the signal system shall require that, before the start signal is given, there is confirmation that all patrons are safely secured within the ride and all other persons are outside the clearance envelope.

(C) The requirements for testing the signal systems including a requirement that all signal systems be tested at least once each day prior to the initial operation of the ride with patrons on board. No ride shall be operated with patrons on board if the signal system is not functioning properly.

(D) The written procedures for the use and testing of the signal system for each ride having a signal system shall be readily available. Where hand, flag, whistle or similar systems are used, a chart of signals shall be posted at the operator(s) and/or signaler(s) station(s).

Exception No. 1: A signal system is not required if the ride is controlled by a single operator who can clearly observe all phases of operation of the ride.

Exception No. 2: A daily test of the signal system is not required where the signal system consists only of human actions such as hand signals, flag signals, whistle signals or similar signals.

(e) Protection of Patrons from Hazardous Surfaces and Moving Parts.

(1) Surfaces of permanent amusement rides a patron may come in contact with shall be free from sharp, rough, or splintered surfaces, edges and corners, and from unguarded or unprotected protruding studs, bolts, screws, and other

projections. Surfaces that a patron may forcibly contact while the ride is in motion shall be adequately padded or otherwise designed and maintained to protect against injury.

(2) All moving parts such as belts, chains, pulleys, gears, drivelines and similar moving machinery that patrons may come into contact shall be sufficiently guarded to protect against injury.

(f) Patron Retention, Restraint, and Support.

(1) All patron carrying devices shall be equipped as necessary to provide protection against injury with patron containment that retains, restrains, or supports the patron during all phases of ride movement. All fastenings shall be of a type that cannot be released inadvertently by the patron or by other accidental means.

(2) All patron containment devices intended for the protection of patrons while they are on permanent amusement rides shall be of adequate design for and be maintained to perform the intended function.

(3) When harnesses are used for patron restraint or containment, the harness shall be a single or dual component harness that provides full body containment.

Note: Harnesses specified in this subsection refer to those designed and manufactured for fall arrest, fall restraint or positioning, and can include similar devices and configurations as reasonably determined by the Division.

(g) Accessing and Exiting Permanent Amusement Rides.

(1) All steps, ramps and walkways inside the site of the permanent amusement ride used by patrons for accessing and exiting the ride shall be of adequate design for and maintained to perform the intended function per the T8 CCR General Safety Orders in effect at the time of installation.

(2) All openings and leading edges shall be adequately guarded to prevent patrons and other persons from falling or otherwise being injured per the T8 CCR General Safety Orders in effect at the time of installation.

(3) All fencing, guardrails, handrails, gates and walkways installed, replaced or modified after the effective date of these orders shall conform to the specifications of ASTM F 2291-25 Section 14 and be maintained in conformance with these specifications and per the T8 CCR General Safety Orders in effect at the time of installation.

(h) Operation and Control of the Ride.

(1) All rides shall be operated and controlled only by authorized persons. All authorized persons designated to control the operation of the ride while it is moving shall, during the period of movement, be within immediate reach of the designed operating controls, even if automatic devices are used to control the time cycle of the ride.

(2) All rides shall have a stop switch within immediate reach of the authorized person or persons designated to operate or control the ride at all times while the ride is in operation.

(3) In addition to the stop switch required by subsection (h)(2), each electrically driven permanent amusement ride shall have a disconnect switch within reach of the authorized person for use in case of emergency. In lieu of this disconnect switch, a stopping device that must be manually reset may be used.

(4) No permanent amusement ride stopped with a device required by (h)(2) or (h)(3) shall be capable of starting immediately upon reset of that device.

Exception No. 1: For permanent amusement rides that do not contain automatic or manual controls for propulsion or braking of the ride, a stop switch or disconnect is not required.

Exception No. 2: For existing permanent amusement rides with individual battery powered vehicles, a stop switch or disconnect switch is not required to be within reach of the authorized person(s)

Exception No. 3: For new permanent amusement rides with individual powered vehicles, a disconnect switch on the individual powered vehicles is not required to be within reach of the authorized person(s). A stop switch that disables any patron controls, shuts off or idles propulsion systems and applies supplied



braking systems is required to be within immediate reach of the authorized person(s) at all times the ride is in operation.

(5) All controls, used for maintenance, inspection or operation in any mode of operation shall be plainly marked with an appropriate description of function in the English language.

(6) The design of operator control systems shall incorporate a control access system.

(7) For equipment rooms, machinery rooms, or other areas unsafe for access by patrons or other unauthorized persons, the Owner or Operator shall post signs forbidding unauthorized access and take other effective measures to prevent unauthorized access including but not limited to locking, fencing, barricading, or other securing to prevent unauthorized access.

(i) Electrical Wiring Affecting Permanent Amusement Rides.

(1) The installation of all new electrical wiring and/or components for permanent amusement rides shall conform to the specifications of ASTM F 2291-24 Section 12 and the applicable requirements of the California Code of Regulations, Title 24, Part 3, California Electrical Code, 2022.

(A) Existing electrical wiring shall be maintained in a serviceable work like manner.

(B) All abandoned electrical equipment and wiring shall be removed.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

**Subchapter 6.2. Permanent Amusement Ride Safety Orders**  
**Article 3. Aquatic Devices including Water Slides, Standing Wave Systems, Lazy Rivers and Wave Pools.**

**§3195.9. Application.**

(a) The requirements contained in this Article provide the modifications and supplementations of Article 2 which apply to Aquatic Devices including but not limited to Water Slides, Standing Wave Systems, Lazy Rivers and Wave Pools.

(b) Aquatic Devices addressed in this section installed on or after (add effective date of these orders) shall comply with subchapter 6.2 Articles 1, 2, 3, and 8 of these regulations: Permanent Amusement Ride Safety Orders.

(c) Existing Aquatic Devices installed before the effective date of these orders shall comply with section 3195.4: General Design and Manufacturer of the 6.2 Permanent Amusement Ride Safety Orders effective in July of 2003.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New article 3 (sections 3195.10-3195.11) and section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

## **§3195.10 Required Documentation**

(a) For each Permanent Aquatic Device in public operation, the Owner or Operator shall have and maintain at the facility the following documentation which is in addition to the documentation required in Section 3195.3.1:

(1) For Water Slides, the manufacturer's documentation indicating that the design and manufacture of the Water Slide is in conformance with ASTM F 2376-24 Sections 4 through 8.

(2) For Standing Wave Systems, the manufacturer's documentation indicating that the design and manufacturer of the Standing Wave System is in compliance with ASTM F 3133-24 Sections 4 through 7.

(3) For those Aquatic Devices not covered in subsections (a)(1) and (a)(2), the manufacturer's documentation indicating that the design and manufacture of the Aquatic Device is in compliance with ASTM F 1159-16e.

Exception No. 1: Existing Aquatic Devices shall comply by maintaining documentation that complies with the Section 3195.3 of the Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven Aquatic Devices only, the Owner or Operator shall comply by maintaining all documentation which is reasonably available from the manufacturer and by developing and maintaining documentation required by Section 3195.11(c).

(4) Documentation of developmental and installation testing procedures along with the results of all testing performed on the Aquatic Device.

(A) For Water Slides, manufacturer originated test and inspection methods conforming to ASTM F 2376-24 Sections 6.3 through 6.4.3.3.

(B) For Standing Wave Systems, manufacturer originated test and inspection methods conforming to ASTM F 3133-24 Section 6.

(C) For those Aquatic Devices not covered in subsections (a)(1) and (a)(2), the manufacturer originated test and inspection methods conforming to ASTM F 1159-16e1 Section 4 and ASTM F 1193-24 Section 5.

Exception No. 1: Existing Aquatic Devices shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders effective in July 2003.

Exception No. 2: For service proven Aquatic Devices only, if the complete documentation meeting the requirements of subsection (a)(4) does not exist, the owner or operator shall comply with subsection (a)(4) by developing and maintaining effective installation and performance testing procedures that conform to the specifications of ASTM F 1193-24e1 Sections 5.2 through 5.2.1.3.

(5) The manufacturer originating maintenance instructions for Water Slides shall be supplemented with information that conforms to the specifications of ASTM F 2376-24 Section 11.

(6) The manufacturer originating operational instructions for Water Slides shall be supplemented to conform to the specifications of ASTM F 2376-24 Section 7 and shall at a minimum contain the information required by ASTM F 2376-24 Section 11.

(b) The Owner or Operator shall maintain an English language copy of all documentation and records listed in subsection (a) of this section at the facility and shall make it available to the Division upon request.

### **§3195.11 General Design and Manufacturing.**

(a) No new Permanent Aquatic Device shall be opened to the public unless it has been designed and manufactured in accordance with the specifications of ASTM F 1193-24e1 and ASTM F 2376-24 Sections 4 through 6 for Water Slides and ASTM F 3133-24 Sections 4 and 5 for Standing Wave Systems.

Exception: For those Aquatic Devices not included in ASTM F 2376-24e1 or ASTM F 3133-24 such as Lazy Rivers and Wave Pools, the general design and manufacturing shall be in accordance with the specifications of ASTM F 1159-16e1 and ASTM F 1193-24e1.

(b) For service proven Aquatic Devices only, the ride shall be certified by a licensed engineer who has completed an analysis that contains sufficient detail to be acceptable to the Division and includes, but is not limited to all of the following:

- (1) Design and structural calculations
- (2) Factors of safety – including identifying areas of high strain and/or fatigue
- (3) Performance characteristics
- (4) Fatigue life
- (5) Forces on patrons
- (6) Restraint and envelope analysis per ASTM F 1159-16e1 Section 5, ASTM F 2291-24 Section 6 and ASTM F 3133-24 Section 4
- (7) Applicable testing per ASTM F 2376-24 Section 6, ASTM F 3133-24 Section 6, ASTM F 1159-16e1 Section 4 and ASTM F 1193-24e1 Sections 5 and 6

(c) An English language copy of all documentation and records listed in subsections (a) and (b) of this section shall be maintained at the facility and made available to the Division upon request.

### **§3195.12 Required Testing**

(a) Before a Permanent Aquatic Device is placed into service for the first time or after a major modification, the Owner or Operator shall conduct or cause to be conducted all installation, performance, operational and nondestructive testing that demonstrates the safe operation of the ride in conformance with ASTM F 2376-24 Section 6, ASTM F 3133-24 Section 6 and/or ASTM F 1193-24e1 Sections 5 and 6.

(1) The range of testing shall include, but not be limited to, riders that represent the entire range of patron sizes within manufacturer restrictions and limitations including the smallest to largest body types that are permitted in or on the flume and specify a realistic minimum number of test runs per each test subject range. A surrogate testing apparatus acceptable to the Division shall be used where live test subjects are impractical or the safety of the ride or device is in question.

(b) At least 30 days prior to commencing installation, performance or operational testing as required by subsection (a) the Owner or Operator shall notify the Division in writing of the date, time and location of testing.

### **§3195.13 Maintenance, Inspection, Operation, Training and Safety Programs.**

(a) For Water Slides, the maintenance program shall be supplemented by the specifications of ASTM F 2376-24 Section 7.

(b) The maintenance program shall include the following for all Aquatic Devices:

(1) Procedures for maintaining water quality within each Aquatic Device so that water will not pose a substantial health risk to patrons who may reasonably be expected to ingest it or otherwise be exposed to it.

(2) Procedures to maintain water clarity in each pool to allow an unobstructed view of the pool shell.

(3) The procedures established above shall include acceptable limits deemed appropriate by the Department of Health in the county the Aquatic Device is located.

(4) Procedures shall be developed, if automatic chemical controller(s) are used to maintain water quality, to test the controller(s) on a daily basis. These procedures shall include testing to ensure the controller(s) stop the flow of chemicals if the water flow of the filtration system has ceased. These procedures shall be readily available at the location of the controller(s) to be tested.

(c) For Water Slides, the inspection program for maintenance and operations shall be supplemented by the specifications of ASTM F 2376-17(a) Section 12.

(d) The inspection program for Aquatic Devices shall include a daily aquatic facility preventative maintenance inspection of the recirculation system, disinfection system, chemical controllers and chemical probes to ensure all systems are in proper working order prior to public operation.

(e) The operations program for Aquatic Devices shall include the following additional requirements:

- (1) For Water Slides, the operations program shall be supplemented by the specifications of ASTM F 2376-24 Section 6.
- (2) For Standing Wave Systems, the operations program shall be supplemented by the specifications of ASTM F 3133-24 Section 8.
- (3) A Safety Plan in accordance with the specifications of the 2018 Model Aquatic Health Code 3<sup>rd</sup> Edition Sections 6.3.3 through 6.3.3.5.2.
- (4) Written emergency procedures including, but not necessarily limited to, each of the following:
  - (A) Procedures for cessation of operations to be followed where this is necessary to ensure patron safety in situations such as, but not necessarily limited to, a cutoff of the water supply or a power outage.
  - (B) Procedures for evacuating patrons from each Aquatic Device including the estimated evacuation time.
  - (C) Methods to direct the movement of patrons to safe areas and to keep them out of unsafe areas during emergency situations.
  - (D) Procedures for shutting off power, water, and pumps, and shutting off and turning on power-operated drains.
- (5) Procedures for establishing and maintaining staffing levels at all times while the Aquatic Device is operating with patrons present. In determining the staffing level for an Aquatic Device, each of the following shall be considered:
  - A. The design and type of Aquatic Device.
  - B. The number of entrances to the loading platform.
  - C. The number of flumes and their proximity to each other.



- D. The length of, and the duration of the patron's travel along, each flume.
- E. The maximum patron capacity of the Aquatic Device by weight.
- F. The maximum patron capacity of the Aquatic Device by number of patrons.
- G. All splash pools, Wave Pools, Lazy Rivers and similar bodies of water shall be staffed by qualified lifeguards certified by a national recognized lifeguard training provider in accordance with the specifications of the 2018 Model Aquatic Health Code 3<sup>rd</sup> Edition sections 6.2.1 through 6.2.2.4.3. Qualified lifeguards shall have immediate access to first aid and CPR supplies that meet the requirements of Section 3400.
- H. Where Qualified Lifeguards are used, a staffing plan in accordance with the specifications of the 2018 Model Aquatic Health Code 3<sup>rd</sup> Edition sections 6.3.4.3 through 6.3.4.4.3 item 4.
- I. The manufacturer's recommended staffing requirement, if there is one, which shall constitute the minimum staffing level.
- (6) Procedures for the control of patron movement along the entire pathway of travel from point of Aquatic Device entry to point of Aquatic Device exit.
- (7) Procedures for controlling the intervals of time separating each patron or patron group along the flume of a Water Slide.
- (8) Procedures to supervise all visible portions of Aquatic Devices accessible by patrons.
- (9) Procedures for maintaining order among patrons in Aquatic Devices and for mitigating any patron behavior having the potential to constitute a safety hazard.
- (10) Procedures to restrict the use of attire such as, but not limited to, aqua socks, water shoes, wet suits and/or dry suits which may interfere with the proper operation of an Aquatic Device.

(11) For Wave Pools, procedures including all motion restrictions and other specific hazard control measures identified in subsections 3195.14(a)(7) through (a)(11).

(f) The Owner or Operator shall maintain at the facility all documentation required by this section in the English language and make it available to the Division upon request.

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### **3195.14 Motion Restriction and Other Specific Hazard Control Measures.**

(a) The following additional requirements shall apply to Aquatic Devices:

(1) The Owner or Operator shall include within Aquatic Device signal systems, the procedural step(s) for controlling the dispatch of patrons or patron vehicles as necessary to prevent collision.

(2) Aquatic Device surfaces and joints shall be maintained per the manufacturer specifications and shall be free of rough, sharp, or uneven surfaces or any other hazard that may cause injury.

(3) If electrical power is used to generate water movement for an Aquatic Device, at least one attendant shall have immediate access to a stopping device that will remove all electrical service to the device.

(4) All drains on Aquatic Devices shall be visible and supervised at all times the Aquatic Device is operating with patrons.

(5) Entrances to and exits from Aquatic Devices shall be clearly marked.

(6) Areas of ingress to and egress from Aquatic Devices, as well as walking surfaces in or on Aquatic Devices, shall be designed and maintained to prevent standing water and to be slip resistant.

(7) Owner/Operators of Wave Pools shall provide a United States Coast Guard-approved Type II or Type III life vest that is free and available for use by a non-swimmer or a child under 48 inches in height. The Owner/Operator shall also provide a United States Coast Guard-approved Type II or Type III life vest that is free and available to any patron at the patron's request. The Owner/Operator shall allow a patron to use their own life vest if that life vest is a United States Coast Guard-approved Type II or Type III life vest.

(8) For Wave Pools, a child under 42 inches in height must be accompanied by an adult.

(9) Children under 48 inches in height, regardless of whether the child is accompanied by an adult, shall wear a properly fitting United States Coast Guard-approved Type II or Type III life vest to gain access to a Wave Pool.

(10) For Wave Pools, in all cases where wave action is suspended for any reason, an audible signal shall be used prior to resuming wave action to warn patrons of impending waves. The audible signal may be of any duration, but shall sound within 15 seconds immediately prior to resuming the breaking wave action. The audible signal shall be loud enough so that it can be heard at all areas of the Wave Pool, but shall not exceed 90 decibels.

(11) For Wave Pools, the Owner/Operator shall ensure that continuous breaking wave cycles do not exceed 15 minutes and that a minimum 5 minute rest period is provided between each wave cycle.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

## **Subchapter 6.2. Permanent Amusement Ride Safety Orders Article 4. Bumper Boat Rides**

### **§3195.15 Application**

(a) The requirements contained in this Article provide the modifications and supplementations of Article 2 which apply to permanent amusement ride Bumper Boats.

(b) Bumper Boats addressed in this section installed on or after (add effective date of these orders) shall comply with subchapter 6.2 Articles 1, 2, 4, and 8 of these regulations: Permanent Amusement Ride Safety Orders.

(c) Existing Bumper Boats installed before the effective date of these orders shall comply with section 3195.4: General Design and Manufacturer of the 6.2 Permanent Amusement Ride Safety Orders effective in July of 2003.

### **§3195.16 Required Documentation**

(a) For each Bumper Boat Ride in public operation, the Owner or Operator shall maintain at the facility the following documentation:

(1) In lieu of the design and manufacturing documentation listed in Article 2, the manufacturer-originated documentation indicating that the design and manufacture of the Bumper Boat Ride is in compliance with ASTM F 2460-19 Sections 4 and 5, ASTM F 1159-16e1 and ASTM F 1193-24e1.

Exception No. 1: Existing Bumper Boat Rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven Bumper Boats, the Owner or Operator shall comply by maintaining all documentation reasonably available from the manufacturer and by developing and maintaining documentation required by Section 3195.17(b).

(b) The owner or operator shall maintain an English language copy of all documentation listed in subsection (a) at the facility and shall make it available to the Division upon request.

### **§3195.17 General Design and Manufacturing.**

(a) No new permanent Bumper Boat Ride shall be opened to the public unless the ride has been designed and manufactured in conformance with the specifications of ASTM F 2460-19 Sections 4 and 5, ASTM F 1159-16e1 and ASTM F 1193-24e1.

(b) For service proven Bumper Boat Rides only, the ride shall be certified by a licensed engineer who has completed an analysis that contains sufficient detail to be acceptable to the Division and includes, but is not limited to all of the following:

(1) Design and structural calculations

(2) Factors of safety – including areas of high strain and/or fatigue

(3) Performance characteristics

(4) Fatigue life

(5) Forces on patrons

(6) Restraint and envelope analysis per ASTM F 1159-16e1 Section 5

(7) Applicable testing per ASTM F 1159-16e1 Section 4 and ASTM F 1193-24e1 Sections 5 and 6

(c) An English language copy of all documentation and records listed in subsections (a) and (b) of this section shall be maintained at the facility and made available to the Division upon request.

### **§3195.18 Maintenance, Inspection, Operation and Training Programs.**

(a) The Maintenance, Inspection and Operation Programs shall be supplemented by the specifications of ASTM F 2460-19 Sections 6, 7 and 8.

(b) The Maintenance Program shall include the following:

(1) Procedures for maintaining water quality within each Bumper Boat Ride so that the water will not pose a substantial health risk to patrons who may reasonably be expected to ingest it or otherwise be exposed to it.

(A) The procedures established above shall include acceptable limits as deemed appropriate by the Department of Public Health in the county the bumper boat ride is located.

(2) Procedures shall be developed, if automatic chemical controller(s) are used to maintain water quality, to test the controller(s) on a daily basis. These procedures shall include testing to ensure the controller(s) stop the flow of chemicals if the water flow of the filtration system has ceased. These procedures shall be readily available at the location of the controller(s) to be tested.

(c) The Operations Program shall include the following additional requirements:

(1) Procedures for evacuating patrons from each Bumper Boat including the estimated evacuation time.

(2) Methods to direct the movement of patrons to safe areas and to keep them out of unsafe areas during emergency situations.

(3) Procedures for properly securing Bumper Boat units during the loading / unloading process.

(4) Procedures for identifying and tagging out specific units that are not operational to prevent inadvertent public operation.

(d) The Owner or Operator shall maintain at the facility all documentation required by this section in the English language and make it available to the Division upon request.

### **§3195.19 Motion Restriction and Other Specific Hazard Control Measures.**

(a) The following additional requirements shall apply to Bumper Boat Rides:

(1) Areas of ingress to and egress from Bumper Boats, as well as walking surfaces around Bumper Boats, shall be designed and maintained to prevent standing water and to be slip resistant.



## **Subchapter 6.2. Permanent Amusement Ride Safety Orders Article 5. Aerial Adventure Rides or Devices**

### **§3195.20 Application.**

- (a) The requirements contained in this Article provide the modifications and supplementations of Article 2, which apply, to Aerial Adventure Rides or Devices.
- (b) Aerial Adventure Rides or Devices installed on or after (add effective date of these orders) shall comply with subchapter 6.2 Articles 1, 2, 5 and 8 of these regulations: Permanent Amusement Ride Safety Orders.
- (c) Existing Aerial Adventure Rides or Devices installed before the effective date of these orders shall comply with Section 3195.4: General Design and Manufacture of the 6.2 Permanent Amusement Ride Safety Orders effective in July of 2003.

### **§3195.21 Required Documentation.**

(a) For each Aerial Adventure Ride or Device in public operation, the Owner or Operator shall maintain at the facility the following documentation:

(1) In lieu of the design and manufacturing documentation listed in Article 2, the manufacturer-originated documentation indicating that the design and manufacture complies with the specifications of ASTM F 2959-24 Sections 8 and 11 shall be maintained.

Exception No. 1: Existing Aerial Adventure Rides or Devices shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Order in effect July 2003.

Exception No. 2: For service proven Aerial Adventure Rides or Devices, the owner or operator shall comply by maintaining all documentation reasonably available from the manufacturer and by developing and maintaining documentation required by Section 3195.22(b)

(b) The owner or operator shall maintain an English language copy of all documentation listed in subsection (a) at the facility and shall make it available to the Division upon request.

### **§3195.22 General Design and Manufacturing.**

(a) No new Aerial Adventure Ride or Device shall be opened to the public unless the ride or device has been designed and manufactured in conformance with the specifications of ASTM F2959-24 Sections 8 and 11.

(b) For service proven Aerial Adventure Rides or Devices only, the ride shall be certified by a licensed engineer who has completed an analysis that contains sufficient detail to be acceptable to the Division and includes, but is not limited to all of the following:

- (1) Design and structural calculations
- (2) Factors of safety – including areas of high strain and/or fatigue
- (3) Performance characteristics
- (4) Fatigue life
- (5) Forces on patrons
- (6) Restraint and envelope analysis per ASTM F 2959-19 Section 11
- (7) Applicable testing per ASTM F 2959-24 Sections 6, 8 and 9

(c) An English language copy of all documentation and records listed in subsections (a) and (b) of this section shall be maintained at the facility and made available to the Division upon request.

### **§3195.23 Required Testing**

(a) Before an Aerial Adventure Ride or Device is placed into service for the first time or after a major modification, the owner or operator shall conduct or cause to be conducted, all installation, performance, operational and nondestructive testing that demonstrates the safe operation of the ride or device in conformance with the additional requirements of ASTM F2959-24 Section 8.

(1) The range of testing shall include, but not be limited to, riders that represent the entire range of patron sizes within manufacturer restrictions and limitations including the smallest to largest body types that are permitted on the ride and specify a realistic minimum number of test runs per each test subject range. A surrogate testing apparatus acceptable to the Division shall be used where live test subjects are impractical or the safety of the ride or device is in question.

(2) All brake systems shall be tested to ensure proper and safe operation.

(3) Emergency brake testing shall be performed independently of other brake systems.

(b) At least 30 days prior to commencing installation, performance or operational testing as required by subsection (a) the Owner or Operator shall notify the Division in writing of the date, time and location of testing.

**§3195.24 Maintenance, Inspection, Operations and Training Programs.**

(a)The Maintenance, Inspection, Operations and Training Programs shall be supplemented by the specifications of ASTM F2959-24 Section 5.6 through Section 5.7.2.

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**Subchapter 6.2. Permanent Amusement Ride Safety Orders Article 6  
Permanent Amusement Railways, Devices and Facilities**

**§3195.25 Application.**

(a) The requirements contained in this Article provide the modifications and supplementations of Article 2, which apply, to Permanent Amusement Railway Rides.

(b) Permanent Amusement Railway Rides addressed in this section installed on or after (add effective date of these orders) shall comply with subchapter 6.2 Articles 1, 2, 6 and 8 of these regulations: Permanent Amusement Ride Safety Orders.

(c) Existing Permanent Amusement Railway Rides installed before the effective date of these orders shall comply with section 3195.4 General Design and Manufacture of the Permanent Amusement Safety Orders effective in July of 2003.

### **§3195.26 Required Documentation.**

(a) For each Permanent Amusement Railway Ride in public operation, the Owner or Operator shall maintain at the facility the following documentation:

(1) In addition to the design and manufacturing documentation listed in Article 2, the manufacturer-originated documentation indicating the design and manufacture of the Permanent Amusement Railway Ride track and related devices are in compliance with ASTM F 2960-23 Sections 5 and 7.

Exception No. 1: Existing Permanent Amusement Railway Rides shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven Permanent Amusement Railway Rides, the Owner or Operator shall comply by maintaining all documentation reasonably available from the manufacturer and by developing and maintaining documentation required by Section 3195.28(b).

(b) The owner or operator shall maintain an English language copy of all documentation listed in subsection (a) at the facility and shall make it available to the Division upon request.

### **§3195.27 General Design and Manufacturing.**

(a) No new Permanent Amusement Railway Ride shall be opened to the public unless the ride has been designed and manufactured in conformance with the specifications of ASTM F2960-23 Sections 5 and 7, ASTM F2291-24, and F1193-24e1.

(b) For service proven Permanent Amusement Railway Rides only, the ride shall be certified by a licensed engineer who has completed an analysis that contains sufficient detail to be acceptable to the Division and includes, but is not limited to all of the following:

- (1) Design and structural calculations
- (2) Factors of safety – including areas of high strain and/or fatigue
- (3) Performance characteristics
- (4) Fatigue life
- (5) Forces on patrons
- (6) Restraint and envelope analysis per ASTM F 2291-24 Section 6 and ASTM 2960-23 Section 5
- (7) Applicable testing per ASTM F 1193-23e1 Sections 5 and 6

(c) An English language copy of all documentation and records listed in subsections (a) and (b) of this section shall be maintained at the facility and made available to the Division upon request.

**§3195.28 Maintenance, Inspection, Operations and Training Programs.**

(a)The Maintenance, Inspection, Operations and Training Programs shall be supplemented by the specifications of ASTM F2960-23 Sections 8, 9 and 10, and ASTM F3054 Section 5.

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**Subchapter 6.2. Permanent Amusement Ride Safety Orders Article 7,  
Permanent Amusement Rides and Devices that are Outside the Purview  
of Other F24 Design Standards**

**§3195.29 Application.**

(a) The requirements contained in the Article provide the modifications and supplementations of Article 2, which apply, to Permanent Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards.

(b) Permanent Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards addressed in this section installed on or after (add effective date of these orders) shall comply with subchapter 6.2 Articles 1, 2, 7 and 8 of these regulations: Permanent Amusement Ride Safety Orders.

(c) Existing Permanent Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards installed before the effective date of these orders shall comply with section 3195.4 General Design and Manufacture of the Permanent Amusement Safety Orders effective in July of 2003.

### **§3195.30 Required Documentation.**

(a) For each Permanent Amusement Ride or Device that is Outside the Purview of Other F24 Design Standards in public operation, the Owner or Operator shall maintain at the facility the following documentation:

(1) In addition to the design and manufacturing documentation listed in Article 2, the manufacturer-originated documentation indicating the design of the Permanent Amusement Ride or Device is in compliance with ASTM F1159-16e1.

Exception No 1: Existing Permanent Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards shall comply by maintaining documentation that complies with Section 3195.3 of the 6.2 Permanent Amusement Ride Safety Orders in effect July 2003.

Exception No. 2: For service proven Permanent Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards, the Owner or Operator shall comply by maintaining all documentation reasonably available from the manufacturer and by developing and maintaining documentation required by Section 3195.32(b).

(b) The owner or operator shall maintain an English language copy of all documentation listed in subsection (a) at the facility and shall make it available to the Division upon request.

### **§3195.31 General Design**

(a) No new Permanent Amusement Ride and Device that is Outside the Purview of Other F24 Design Standards shall be opened to the public unless it has been designed and manufactured in accordance with the specifications of ASTM F 1159-16e1 and ASTM F 1193-24e1.

(b) For service proven Permanent Amusement Rides and Devices that are Outside the Purview of Other F24 Design Standards only, the ride shall be certified by a licensed engineer who has completed an analysis that contains sufficient detail to be acceptable to the Division and includes, but is not limited to all of the following:

- (1) Design and structural calculations
- (2) Factors of safety – including areas of high strain and/or fatigue
- (3) Performance characteristics
- (4) Fatigue life
- (5) Forces on patrons
- (6) Restraint and envelope analysis per ASTM F 1159-16e1 Section 5
- (7) Applicable testing per ASTM F 1159-16e1 Section 4 and ASTM F 1193-24e1 Sections 5 and 6

(c) An English language copy of all documentation and records listed in subsections (a) and (b) of this section shall be maintained at the facility and made available to the Division upon request.

**Subchapter 6.2. Permanent Amusement Ride Safety Orders**  
**Article 8. Recordkeeping and Information Transfer**

**§3195.32 Recordkeeping.**

(a) The owner or operator shall make and maintain for at least five years, and make available to the Division upon request during any Division inspection, records of all of the following:

(1) Training provided as required by Section 3195.6, including the date provided, the name of the employee trained, the type of training provided, and the length of the training session.

(2) Maintenance, repair, inspection, and testing performed on each permanent amusement ride.

(3) Accidents required to be reported by Section 344.15 of this Title.

(4) Amusement ride incidents.

(5) Testing performed to determine water quality

(6) Determinations of staffing levels to be maintained at aquatic devices.

(b) Records of amusement ride incidents shall consist of any reasonable format chosen by the owner or operator which includes the name of the authorized person(s) present and describes the incident as well as any inspection, repair, modification, and maintenance performed in response to the incident.

(c) The information on accidents recorded pursuant to this section shall include but not necessarily be limited to each of the following, to the extent reasonably available:

(1) The date of occurrence of the accident.

(2) The name of the ride and manufacturer of the ride where or on which the accident occurred.

(3) A detailed description of the accident.

(4) The names, addresses, ages, and telephone numbers of all persons involved in the accident, including but not limited to those injured, the authorized person(s) present, and a representative number of witnesses, if any.

(5) A description of the injury and treatment provided to the injured parties involved in the accident.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New article 4 (sections 3195.12-3195.14) and section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

### **§3195.33. Transfer of Information with Used Permanent Amusement Rides.**

(a) The seller of a used permanent amusement ride shall, upon transfer of the ride to the new owner, provide with the ride a copy of all of the following:

(1) All manufacturer documentation and all operational and maintenance manuals that pertain to the ride and are within the seller's possession.

(2) Complete information describing any modification to the ride or any part thereof performed while in the seller's possession, and any other modifications to the extent known by the seller. If documentation or information pertaining to modifications has been lost, the seller shall provide full disclosure of what information is missing, to the extent known by the seller.

(3) A summary of all incidents reported to the manufacturer pursuant to the procedure required by Sections 3195.4(b), 3195.6(b)(1) and 3195.6(h)(1) and all accidents resulting in injury required to be reported to the Division by Section 344.15.

(b) The purchaser of a used permanent amusement ride shall notify the manufacturer, if the manufacturer still exists, of the change of ownership.

(c) The purchaser of a used permanent amusement ride shall obtain from the manufacturer all updated owner, operational, and maintenance manuals and service bulletins to the extent they are available.

NOTE Authority cited: Sections 142.3 and 7923, Labor Code. Reference: Sections 142.3 and 7923, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

**§3195.34. Confidentiality.**

The Division shall maintain the confidentiality of all documentation and records required by this Subchapter to the extent that the Division obtains such documentation and it is protected by Labor Code Section 6322 or any other applicable provision of law.

NOTE Authority cited: Sections 60.5, 7923 and 7928, Labor Code. Reference: Sections 6322 and 7920-7928, Labor Code.

HISTORY 1. New section filed 6-12-2003; operative 7-12-2003 (Register 2003, No. 24).

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