

Chapter ILHR 34

AMUSEMENT RIDES AND ATTRACTIONS

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Note: Chapter ILHR 34 as it existed on February 29, 1992 was repealed and a new chapter ILHR 34 was created effective March 1, 1992.

Subchapter I — Purpose and Scope

ILHR 34.001 Purpose. The purpose of this chapter is to set forth minimum standards for design, construction, operation, repair, inspection, assembly, disassembly and use of amusement rides, amusement attractions and amusement structures at carnivals, fairs and other places of amusement for the safety of employes and frequenters.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.002 Scope. (1) **APPLICATION.** The provisions of this chapter apply to amusement rides, amusement attractions and amusement structures located at permanent sites or moved from site to site.

(2) **EXCLUSIONS.** The provisions of this chapter do not apply to nonmechanized playground equipment, such as swings, seesaws, station-

ary spring mounted animal features, rider propelled merry-go-rounds, climbers, slides, swinging gates and physical fitness devices.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.003 Retroactivity. Except as otherwise specified in this chapter, the provisions of this chapter shall apply to all amusement rides and attractions in existence on March 1, 1992 and to those amusement rides and attractions constructed on and after March 1, 1992.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

Subchapter II — Definitions

ILHR 34.01 Definitions. In this chapter:

(1) "Amusement attraction" means any show or exhibition but does not include amusement rides.

(2) "Amusement structure" means any object used in conjunction with amusement rides or amusement attractions, including, but not limited to, bridges, food stands, enclosures for games of chance, support towers, power-generation and distribution systems, decorations, signs and speaker systems.

(3) "Amusement ride" means a device or animal that carries, transports or supports passengers in unusual, entertaining or thrilling modes of motion and any vehicle providing entertainment or transportation in conjunction with an amusement ride or an amusement attraction, including, but not limited to, rider-powered and power-driven thrill rides, mild rides and ride-throughs, walk-throughs, air pillows, giant slides, and animal rides. Vehicles include parking lot trams, old fire engines, stage coaches and trains. "Amusement ride" does not include aircraft under the jurisdiction of the federal aviation administration, railroad trains under the jurisdiction of the federal railroad administration or boats used on navigable waters.

(4) "Approved" means approved by the department.

(5) "Authorized persons" are persons experienced and instructed in the work to be performed on an amusement ride or attraction and who have been given the responsibility to perform their duties by the owner or operator of an amusement ride or attraction.

(6) "Coin-operated ride" means an amusement ride which is activated by the insertion of a coin or token or by a push-button switch and timer.

(7) "Department" means the department of industry, labor and human relations.

(8) "Equivalent degree of safety" means an alternative to strict compliance with this chapter provided the alternative establishes an equivalency to the subject rule and the alternative has been approved by the department.

(9) "Frequenter" means every person, other than an employe, who may go in or be in a place of employment, public building, amusement attraction or amusement ride under circumstances which render such person other than a trespasser.

(10) "Modified ride" means an amusement ride whose structure, drive system, method of erection, or other items affecting the safety of the amusement ride have been changed, except changes recommended by the ride manufacturer.

(11) "Owner" means the person holding legal title to the amusement ride or attraction, or his or her designated representative, lessee or agent.

(12) "Passenger space" means the area, seat, tub, chair, car, cage or other device in which the customer sits, stands, walks or otherwise occupies while frequenting an amusement ride or attraction.

(13) "Professional engineer" means an engineer registered in the state of Wisconsin.

(14) "Properly maintained" means assembling, disassembling, transporting, operating, lubricating, greasing, oiling, testing and repairing amusement rides and attractions in accordance with recognized safe practice.

(15) "Recognized safe practice" means that the materials and methods used to assemble, disassemble, operate, transport, maintain, repair and modify amusement rides and attractions are:

(a) In accordance with the written specifications and procedures of the manufacturer, the owner's liability insurance carrier, nationally recognized standards, or the written standards of the department; or,

(b) In the absence of written specifications, procedures or standards, in accordance with the best practices of the skills and trades involved.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

Subchapter III — Administration and Enforcement

ILHR 34.02 Assignment of classification of amusement rides. (1) GENERAL. The department shall classify amusement rides into one of the 4 classifications as specified in s. ILHR 34.03 on the basis of known characteristics of the amusement ride and any modifications made to the ride.

(2) ADDITIONAL INFORMATION. (a) The department may require additional information sufficient to properly classify amusement rides.

(b) An amusement ride shall be assigned to class 3 when requested information for the amusement ride is not provided.

(3) NOTIFICATION. The department shall notify the owner to which class the amusement ride has been assigned and of required inspections and tests.

(4) RECLASSIFICATION. The department shall reclassify rides if the amusement rides fail to continue to meet the criteria for which they were classified.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.03 Amusement ride classifications. Amusement rides shall be classified as follows:

(1) **CLASS 1.** Class 1 shall consist of amusement rides that are properly designed, constructed and maintained to move passengers in a mild manner.

Note: Examples of class 1 amusement rides include but are not limited to:

Air Pillow (Moonwalk)	Giant Slide
Animal Rides (Live)	Go-Gator
Antique Cars (Hampton)	Helicopter
Astroliner	Jump Cycle (Hampton)
Berry-Go-Round	Jungle Gym
Bulgy Whale	Merry-Go-Round
Bumper Boats (Kiddie)	Midge-O-Racer
Bumper Cars (Kiddie)	Mini-Himalaya
Chair Swing (Kiddie)	Mini-Jet (Zamperla)
Claterpillar	Motorcycle (Hampton)
Coaster (Kiddie)	Raiders
Combination (Hampton)	Red Baron (Zamperla)
Convoy	Rocket Ride
Dark Ride	Sky Fighter
Dune Buggy (Hampton)	Snowmobiles (Hampton)
Ferris-Type Wheels (Kiddie)	Spin the Apple
Flying Saucer	Sunliner (Chance)
Four by Four	Trains (Kiddie)
Fun House	Walk-Throughs (Moving Parts)

(2) **CLASS 2.** Class 2 shall consist of thrill-type amusement rides which are designed, constructed and tested in accordance with an engineering analysis acceptable to the department.

Note: Examples of class 2 amusement rides include but are not limited to:

Bubble Bounce	Paratrooper
Bumper Boats	Pirate Ship
Bumper Cars	Railroads (Miniature)
Casino	Rock-O-Plane
Chair Swing	Rock-N-Roll
Cortina Bobs	Roller Coasters (Big)
Crazy Dance	Roll-O-Plane
Dodgem Cars	Roundup
Enterprise	Scooters
Falling Star	Scrambler
Ferris-Type Wheels	Sea Dragon
Flume Ride	Sizzler
Flying Bobs	Sky Diver
Flying Carpet	Sky Wheel
Force 10	Space Shuttle
Giant Wheel	Spider
Go-Karts	Super Loops
Gravitron	Swinger
Hang 10	Swiss Bobs
Himalaya	Tempest
Kamakazi	Thunderbolt
Love Machine	Tilt-A-Whirl
Matterhorn	Tip Top
Merry Mixer	Toboggan
Monster	Water Slide
Moonraker	Wipeout
Music Fest	Yo-Yo
Octopus	Zipper
Orbiter	Zyclon (Coaster)

(3) **CLASS 3.** Class 3 shall consist of those amusement rides which do not meet the requirements for the classes of amusement rides under sub. (1) or (2).

(4) **MODIFIED AMUSEMENT RIDES.** Amusement rides which have been changed, except for changes made by the manufacturer, shall be classified as modified rides.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.04 Registration of amusement rides. (1) **GENERAL.** All amusement rides shall be registered with the department annually. The fees as specified in ch. Ind 69 shall be paid and the amusement rides shall be registered prior to being opened to the public. All registrations, regardless of date of issuance, shall expire on December 31 of each year.

(2) **INFORMATION REQUIRED.** The following registration information shall be provided on forms available from the department:

(a) Name and address of owner, or operator or lessee if different from owner;

(b) Descriptive name, model and serial number of the amusement ride;

(c) Route, including specific sites and dates on which the amusement ride will be operated in the state. If the route is incomplete or modified, the department shall be notified prior to operation on the adjusted route; and

(d) Proof of worker's compensation coverage and ability to pay liability damages arising out of the handling, maintenance or use of amusement rides, such as evidence of insurance coverage.

Note: See Appendix for a reprint of the amusement ride registration form. Forms SBD-5292 and SBD-7620 for amusement ride registration may be obtained by contacting:

Division of Safety and Buildings
Bureau of Safety Services
P.O. Box 7969
Madison, Wisconsin 53707
608/266-2780

(3) **ADDITIONAL INFORMATION.** (a) Additional registration information shall be provided if requested by the department.

(b) Maintenance, operating and safety manuals shall be made available to the department by the owner, provided the manuals are available from the manufacturer.

(c) The results of any required nondestructive testing shall be submitted to the department.

(4) **MODIFIED AMUSEMENT RIDES.** Amusement rides modified since the last registration shall not be operated until the department has been provided with information to determine the proper maintenance and class of the rides, and the owner or operator has obtained a new registration certificate.

(5) **AMUSEMENT RIDE REGISTRATION REFUSAL.** Amusement rides shall not be registered by the department for any of the following reasons:

(a) Unabated written safety-related orders issued by the department;

(b) Outstanding registration and inspection fees;

(c) Modifications, repairs or maintenance that are not in accordance with recognized safe practice; or

(d) Failure to provide nondestructive testing information when the testing is required by recognized safe practice.

(6) **POSTING OF CERTIFICATE.** The registration certificate shall be posted on the amusement ride so that the certificate is visible to the public.

(7) **REGISTRATION PROCESSING TIME.** (a) The department shall review the registration application and grant a registration or issue a denial within 15 business days of receiving the required information and fees.

(b) If the department requests information or fees in addition to those originally submitted, the 15-day processing time shall commence upon receipt of the requested items.

(c) The department reserves the right to negotiate an extension of time on registration applications when the applicant is in arrears on payment of fees or compliance with safety orders issued on amusement rides under the ownership or control of the applicant.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.05 Examination of plans. (1) **GENERAL.** Plans and specifications for all custom-built, site-specific amusement rides not used in a portable mode shall be submitted to the department for examination and approval before construction commences.

(2) **PLANS AND SPECIFICATIONS.** At least 3 sets of plans, which are clear, legible and permanent copies, and one copy of specifications shall be submitted for examination and approval before commencing construction. The plans and specifications shall contain the following information:

(a) *General.* All plans shall contain the name of the owner and the address of the amusement ride. The name and seal of the Wisconsin registered architect, Wisconsin professional engineer or the name of the person who prepared the plans shall appear on the title sheet;

(b) *Plot plan.* The plot plan shall indicate the location of the amusement ride with respect to property lines or adjoining streets, alleys, electrical transmission lines or other hazard which may interfere with safe operation, and any other buildings and amusement rides on the same lot or property;

(c) *Floor plans or layouts.* Floor plans or layouts shall be provided for each floor of the ride. The size and location of all rooms, doors, windows, structural features, exit passageways, exit lights, and other pertinent information shall be indicated. Schematic exit plans shall be provided for large buildings and amusement rides indicating normal paths of egress;

(d) *Elevations.* The elevations shall contain information on the exterior appearance of the amusement ride;

(e) *Sections and details.* Section views and detail drawings shall include information to clarify the design; and

(f) *Specifications.* The specifications shall be properly identified with the drawings and describe the quality of the materials and the workmanship.

(3) **DATA REQUIRED.** All plans submitted for approval shall be accompanied by data and information sufficient for the department to determine if the design of the amusement ride meets the requirements of this chapter. The following information shall be submitted:

(a) *Structural data.* Sample structural calculations, including assumed bearing value of soil, live loads and itemized dead loads, and unit stresses for structural materials; and

(b) *Additional data.* When requested, additional data pertaining to design, construction, materials and equipment shall be submitted to the department for approval.

(4) **APPLICATION FOR APPROVAL.** (a) *Form.* A plans approval application form shall be included with the plans submitted to the department for examination and approval.

Note: Application form SB-118 is available from the Safety and Buildings Division, P. O. Box 7969, Madison, Wisconsin 53707.

(b) *Conditional approval.* If the department determines that the plans and the specifications substantially conform to the provisions of this chapter, a conditional written approval shall be granted. All conditions not in compliance with this chapter, which are identified in the conditional approval, shall be corrected before or during construction of the amusement ride. Issuance of a conditional approval by the department does not constitute assumption by the department of any responsibility for the design or construction of the amusement ride.

(c) *Denial of approval.* If the department determines that the plans or the application do not substantially conform to the provisions of this chapter, the application for conditional approval shall be denied in writing.

Note: A letter will be sent to the designer and the owner of record with a statement relating to the examination of the plans and citing the conditions of approval or denial. The plans will be dated and stamped "conditionally approved" or "not approved", whichever applies. The department will retain one copy of the plans for all projects. The remaining plans will be returned to the person designated on the plans approval application.

(5) **PLAN REVIEW PROCESSING TIME.** The department shall review plans, calculations and related information and grant an approval or issue a denial within 15 business days of receiving the requested information and fees. If the department requests information or fees in addition to those originally submitted, the 15-day processing time shall commence upon receipt of the requested items.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.06 Evidence of plan approval. The engineer, designer, manufacturer or owner shall keep at the site one set of plans bearing the stamp of conditional approval and a copy of the specifications. The plans shall be open to inspection by an authorized representative of the department. Plan approval by the department shall expire one year after the date indicated on the approved plans if construction has not commenced within that year.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.07 Revocation of approval. The department may revoke any approval or registration issued under the provisions of this chapter, for

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any false statements or misrepresentation of facts on which the approval or registration was based.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.08 Department inspections. (1) Inspections of amusement rides for which plans must be submitted under s. ILHR 34.05 shall be conducted by the department or its authorized representative to ascertain whether the construction or installations conform to the conditionally approved plans, the conditional approval letter, and the provisions of this chapter.

(2) Every amusement ride and attraction shall be subjected to an inspection conducted by the department or its authorized representative.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.09 Fees. Fees for the registration of amusement rides, plan examination and approvals, inspections, petitions for variance and miscellaneous administrative functions shall be submitted as specified in ch. Ind 69. Fees shall be submitted at the time the application for registration or approval is submitted. No registration or determination will be made until the fees are received.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.10 Appeals. (1) **APPEAL OF LOCAL ORDER.** Any person affected by any local order, as defined in s. 101.01 (1)(g), Stats., which may be in conflict with a rule of this chapter may petition the department for a hearing on the grounds that the local order is unreasonable and in conflict with the rule.

Note: Section 101.01 (1) (g), Stats., defines "local order" as any ordinance, order, rule or determination of any common council, board of aldermen, board of trustees or the village board, of any village or city, or the board of health of any municipality, or an order or direction of any official of such municipality, upon any matter over which the department has jurisdiction.

(2) **APPEAL OF ADMINISTRATIVE RULE.** Pursuant to ch. 227, Stats., any municipality, corporation or any 5 or more persons having an interest in an administrative rule may appeal to the department requesting the adoption, amendment or repeal of the rule.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.11 Petition for variance. (1) **PROCEDURE.** The department shall consider and may grant a variance to any requirement in this chapter upon receipt of a fee and a completed petition for variance form from the owner provided an equivalency is established in the petition for variance which meets the intent of the rule being petitioned. The department may impose specific conditions in a petition for variance to promote the protection of the health, safety or welfare of the employes or the public. Violation of any condition under which the petition is granted shall constitute a violation of this chapter.

Note 1: See Appendix for an example of the petition for variance form (SB-8).

Note 2: Section 101.02 (6), Stats., and ch. ILHR 3 outline the procedure for submitting petitions to the department and the department procedures for hearing petitions.

(2) **PETITION PROCESSING TIME.** Except for priority petitions, the department shall review and make a determination on a petition for variance within 30 business days of receipt of all calculations, documents and

fees required to complete the review. The department shall process priority petitions within 10 business days.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.12 Penalties. Penalties for violation of any provision of this chapter shall be assessed in accordance with s. 101.02, Stats.

Note 1: Section 101.02 (13) (a), Stats., indicates penalties will be assessed against any employer, employee, owner or other person who fails or refuses to perform any duty lawfully enjoined, within the time prescribed by the department, for which no penalty has been specifically provided, or who fails, neglects or refuses to comply with any lawful order made by the department, or any judgment or decree made by any court in connection with ss. 101.01 to 101.25, Stats. For each such violation, failure or refusal, such employee, owner or other person must forfeit and pay into the state treasury a sum not less than \$10 nor more than \$100 for each violation.

Note 2: Section 101.02 (12), Stats., indicates that every day during which any person, persons, corporation or any officer, agent or employee thereof, fails to observe and comply with an order of the department will constitute a separate and distinct violation of such order.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

Subchapter IV — Tests and Record Keeping

ILHR 34.15 Periodic inspections and operational tests. (1) GENERAL. The owner shall arrange for all amusement rides to be subjected to periodic inspections and operational tests as specified in this section. Such inspections and tests shall be documented by written records and the records shall be kept as specified in s. ILHR 34.18.

(2) **INSPECTION AT ASSEMBLY.** A visual inspection for defects of the amusement ride shall be made at assembly of the ride. Inspection of all fastening devices shall be made to assure that fasteners recommended by the manufacturer have been properly installed.

(3) **DAILY INSPECTION AND OPERATIONAL TESTS.** Amusement rides shall be inspected and their operation tested each day before use by frequenters. The inspection and operational test shall include the operation of all control devices, speed-limiting devices, brakes and other equipment provided for safety.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.16 Nondestructive tests. (1) SCOPE AND NATURE OF TESTS. A nondestructive test, such as but not limited to magnetic particle, x-ray, dye penetrant or ultrasonic, shall be performed on the ride in accordance with recognized safe practice.

Note: Manufacturers and other recognized authorities are encouraged to submit to the department a list of parts that require testing, the appropriate methods of testing and the time between tests.

(2) **TEST PERIOD. (a) Classes 1 and 2.** When required, nondestructive tests of all class 1 and class 2 amusement rides shall be performed every 3 years or 3,000 hours of operation, whichever comes first, or at testing intervals recommended by the manufacturer. The time interval shall be based upon the date of the previous test report.

(b) **Class 3 and modified.** An engineering analysis acceptable to the department shall be submitted before a class 3 ride or modified ride may be operated. If an engineering analysis cannot be obtained, then nondestructive tests of load-bearing parts and welds and load testing re-

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sults shall be submitted. After the ride is accepted under these requirements, the ride shall be classified as a class 1 or 2 ride.

(3) **RECORD OF TESTS.** The nondestructive test shall be performed by an individual who has achieved a rank of at least level II technician or by a professional engineer. The test method and results shall be documented by the testing authority. Test documentation shall be maintained and made available to the department as specified in s. ILHR 34.18.

Note: A level II NDT technician is an individual capable of conducting the examination and having sufficient training and experience to evaluate the results. For further explanatory information, see the American Society for Nondestructive Testing recommended practice SNT-TC-1A for nondestructive testing personnel qualification and certification.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.17 Load testing. (1) **GENERAL.** If required under s. ILHR 34.16, a class 3 ride or modified ride shall be load tested prior to initial operation. Immediately following the load test, all load-bearing parts and welds shall be subjected to nondestructive tests. The load test shall be performed as specified in sub. (2), and documented as specified in sub. (3).

(2) **BALANCED LOAD TEST.** (a) Except as provided in par. (b), the capability of the amusement ride to operate through a normal cycle with all passenger spaces loaded to 1¼ times the rated passenger weight shall be demonstrated through testing. The test weights shall have approximately the same center of gravity as the expected passenger.

(b) The capability of amusement rides which can not operate with 1¼ times rated load shall be demonstrated through verified engineering analysis.

Note 1: A method of estimating passenger load is presented in the Appendix.

Note 2: Individuals conducting balanced load tests should exercise extreme caution and care in planning and conducting such tests in order to prevent accidental injury of viewers and bystanders.

(3) **DOCUMENTATION.** Class 3 and modified amusement rides shall not be opened to the public until documentation of successful completion of tests as specified in sub. (2) and s. ILHR 34.16 have been accepted by the department.

(4) **LOAD TEST PROCESSING TIME.** The department will review load test documents and grant an approval or issue a denial to open the amusement ride to the public within 15 business days of receiving the required information and fees. When the department finds it necessary to request and receive information or fees in addition to that originally submitted, the 15-day processing time shall commence upon receipt of the requested items.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.18 Record keeping. (1) **OWNER RESPONSIBILITY.** Records related to amusement ride safety shall be kept and retained by the amusement ride owner and shall be made available to the department upon request.

(2) **REQUIRED RECORDS.** Records shall be kept of the following:

(a) Inspections at time of assembly as specified in s. ILHR 34.15 (2);

(b) Daily inspections and operational tests as specified in s. ILHR 34.15 (3);

(c) Nondestructive tests as specified in s. ILHR 34.16;

(d) Load tests as specified in s. ILHR 34.17; and

(e) The hours of operation since the last nondestructive test.

Note: The hours of operation should be recorded after each use to maintain a current running total from the last nondestructive test.

(3) **ACCURACY OF RECORDS.** An authorized person shall sign the records to attest to their accuracy.

(4) **RETENTION OF RECORDS.** (a) Records for at least the 30 previous days of operation as specified in sub. (2) (a) and (b) and the most recent nondestructive tests as specified in s. ILHR 34.16 shall be kept with the amusement ride.

(b) All records shall be kept at least 7 years.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

Subchapter V — Design and Construction

ILHR 34.19 Design and construction. Amusement rides and attractions shall be so designed and constructed that the maximum loads do not stress any part beyond recognized safe practice.

Note: ASTM F1159 may be used as a guide in the design and manufacture of amusement rides.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.20 Emergency brakes and anti-rollback devices. (1) **EMERGENCY BRAKES.** (a) If cars or other components of an amusement ride may collide upon failure of normal controls, emergency brakes to prevent such collisions shall be provided.

(b) A braking mechanism shall be provided to bring the amusement ride to a controlled stop in the case of uncontrolled motion of the ride.

(2) **ANTI-ROLLBACK DEVICES.** On amusement rides which make use of inclines where there is danger of collision if the propelling mechanism fails, automatic anti-rollback devices shall be installed to prevent backward movement of the passenger-carrying devices in case of failure of the propelling mechanism.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.21 Speed-limiting devices. An amusement ride capable of exceeding its safe operating speed shall be provided with a speed-limiting device.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.22 Passenger-carrying devices. (1) **GENERAL.** All passenger-carrying devices shall be designed, assembled, operated and maintained in accordance with recognized safe practices.

(2) **PROTECTION FROM LACERATIONS, ABRASIONS AND PUNCTURES.** Interior and exterior parts of all passenger-carrying devices with which a passenger may come into contact shall be free of abrasives and splinters,

sharp edges and corners, protruding studs, bolts, screws and other hazardous projections.

(3) **PROTECTION FROM IMPACT INJURIES.** Padding or other means to minimize injury due to passenger impact resulting from the action of the amusement ride shall be provided in accordance with recognized safe practice.

(4) **LOADING AND UNLOADING.** (a) Securely attached grab bars, steps and similar devices that facilitate safe entrance and exit shall be provided in accordance with recognized safe practice.

(b) 1. Except as provided in subd. 2., all passenger-carrying devices shall be stabilized by positive locks while passengers are loading and unloading.

2. Manual stabilization of the passenger-carrying device shall be relied upon only when recommended by the manufacturer.

(c) Entrances and exits shall be oriented to direct passengers to safe locations.

Note: For example, where a stirrup allows mounting on only one side of a merry-go-round figure, it should be located toward the center of the platform.

(5) **RESTRAINT AND SUPPORT.** (a) Securely attached restraining and support devices, such as but not limited to seat belts, lap bars, footrests and headrests, shall be provided in accordance with recognized safe practice.

(b) Seat belts, lap bars and similar means of restraint shall have connections or latches which cannot be readily or inadvertently released by the passenger.

(c) Chair swings shall be provided with crotch straps, or equivalent means of restraint for the passengers shall be provided in accordance with recognized safe practice.

(d) Restraining devices shall be replaced or repaired when worn or damaged to impair their function. Replacements for restraining devices shall be of equal or greater dimension, strength and padding.

(e) The passenger-carrying devices of amusement rides, such as but not limited to dark rides and miniature train cars, shall be provided with means to prevent passengers from standing if the distance from the floor of the device to an overhead object, such as a doorway, is less than 6 feet 8 inches.

(6) **MINIMUM HEIGHT.** If passenger-carrying devices of amusement rides require passengers to be a minimum height, this minimum height shall be posted at the ride entrance.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.23 Foundations. (1) **GENERAL.** Amusement rides, attractions and structures shall be supported and restrained to maintain stability during operation and in emergencies.

(2) **PERMANENT FOUNDATION.** (a) Permanent foundations for amusement rides, attractions and structures shall comply with ch. ILHR 53.
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(b) The foundations shall support the amusement ride, attractions and structure in accordance with recognized safe practice.

(c) Anchorage, restraint and vibration isolation devices shall be provided in accordance with recognized safe practice to prevent horizontal displacement, such as creeping or walking, during normal operation and emergency stops.

(3) TEMPORARY FOUNDATIONS. (a) Blocks and shims used as temporary foundations shall be of sound material capable of withstanding the loads applied during normal operation and in emergencies. Hollow concrete blocks shall not be used. Blocking in contact with supporting surfaces shall be of proper size to prevent settling.

(b) 1. Except as provided in subd. 2., the height of a system of blocks above any level shall not exceed the width of the base of that level, as illustrated in Figure 34.23.

2. The department may approve a system of blocks not higher than twice the width of its base provided the stability of the amusement ride is not adversely affected and the amusement ride does not impart a horizontal load to the system of blocking.

Note: This exception typically applies only to a small portion of the blocks which support a rigid structure (e.g., bumper-car enclosure), but not to thrill rides, rides with flexible structures, or tall structures or rides, such as slides and ferris wheels.

(c) Each piece of material used in a system of blocks shall be level and oriented so its height does not exceed the width of its base.

(d) All blocks shall be aligned, the angles between blocks used in a crib shall be approximately equal and the load shall be distributed to prevent tipping.

(e) Shims shall be limited to the minimum number required for leveling.

(f) Blocking shall be secured in accordance with recognized safe practice.

(4) RESTRAINT. Amusement rides, attractions and structures shall be staked, bolted, guyed, wind braced or otherwise restrained in accordance with recognized safe practice to prevent horizontal movement, such as rotating off blocking during an emergency stop or tipping over.

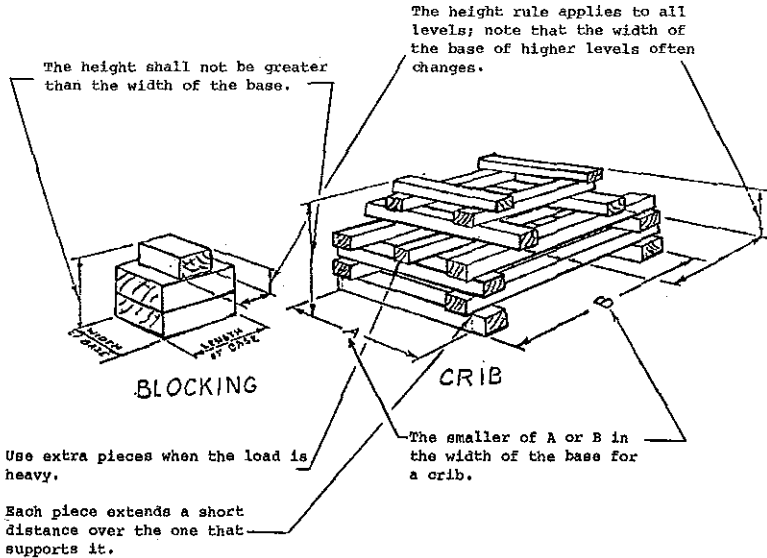


FIGURE 34.23-1
SYSTEMS OF BLOCKS

FIGURE 34.23
SYSTEMS OF BLOCKS

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.24 Access, egress and passageways. (1) **HAZARDS.** Access to, egress from and passage through amusement rides, attractions and structures shall be free of hazards.

(2) **DESIGN LOADS.** All stairways, ramps, platforms and passageways shall be designed and maintained to safely support a superimposed load of at least 100 pounds per square foot.

(3) **GUARDRAILS.** (a) 1. Guardrails shall be provided at all open sides of platforms and passageways which are more than 24 inches above the ground or adjacent level.

2. Guardrails shall be provided between passenger-carrying devices and persons waiting on the platform or entranceway of a class 2 or 3 ride.

Note: This rule is intended to keep frequenters from standing on the platform of himalaya-type rides while the ride is in motion.

(b) 1. Except as provided in subd. 2., guardrails shall be at least 42 inches high.

2. If a guardrail is less than 42 inches high, the department may grant an exception if an equivalent degree of safety is provided.

(c) The top member of the guardrail shall be rigid and smooth and capable of withstanding a minimum load of 200 pounds applied downward or horizontally.

Note: Ropes, chains and similar devices may not be used as guardrails. See s. ILHR 34.34 (2) (b).

(d) Guardrails shall be designed and constructed with a rigid intermediate barrier, or equivalent, capable of withstanding a minimum load of 100 pounds applied downward or horizontally.

Note: These are minimum standards for protecting average size adults. Guardrails should be constructed to discourage small children from climbing or swinging on, or passing through them.

(4) **SURFACES FOR WALKING.** (a) All stairways, ramps, platforms and passageways shall be well-drained and kept free of debris, obstructions, projections, tripping hazards and other hazards.

(b) All stair treads, ramps and platforms shall have an abrasive or other type of slip-resistant surface.

Note: A coefficient of friction of 0.5 or greater is considered to be slip-resistant.

(c) Tripping hazards which cannot be avoided due to the design of the device shall be provided with handrails, contrasting colors, illumination or signs.

Note: The low rail of a bumper-car enclosure, electrical distribution boxes or guy wires are examples of these types of tripping hazards.

(d) Gaps between adjacent sections of fixed surfaces for walking shall not exceed one inch in width.

(e) Gaps between a fixed and a movable surface for walking or between 2 movable surfaces for walking shall not exceed 3 inches. The gaps shall be minimized by extending one surface under or over the other provided the extensions do not adversely affect the operation of the amusement ride or attraction or create a greater tripping hazard.

(5) **OVERHEAD CLEARANCE.** (a) Except as provided in par. (b), overhead clearance shall be not less than 6 feet 8 inches.

Note: This rule is intended to apply to all areas of amusement rides and attractions where the frequenters walk or stand or are capable of standing during operation of the amusement ride or attraction.

(b) The department may accept lesser headroom clearances when the low overhead is part of the amusement ride or attraction; however, protection against head injuries shall be provided.

(6) **STAIRS.** (a) Tread width and riser height shall be of any combination that results in a stair angle between 30° and 40° to the horizontal. The riser height shall be at least 6 inches but not greater than 8 inches.

Note: The following table presents typical tread-riser combinations which satisfy this rule.

Angle to Horizontal	Rise (in inches)	Tread Run (in inches)
30° 35'	6½	11
32° 08'	6¾	10¾
33° 41'	7	10½
35° 16'	7½	10¼
36° 52'	7½	10
38° 29'	7¾	9¾
40° 00'	8	9½

(b) 1. Except as provided in subd. 2., the difference in width between treads and the difference in height between risers shall not exceed ¼-inch in any one flight of stairs.

2. To accommodate ground slopes, the riser distance from ground level to the lowest tread may be less than the rise of the other steps in the stairway.

(c) Stair treads shall be level in both directions except that a slight slope to improve drainage is acceptable.

(d) 1. Graspable handrails shall be provided on both sides of all flights of stairs that have 3 or more risers.

2. The handrails shall be located between 30 and 34 inches above the nose of the stair tread.

3. The handrail shall be rigid, smooth and capable of withstanding a minimum load of 200 pounds applied downward or horizontally.

Note: Ropes, chains and similar devices may not be used as handrails. See s. ILHR 34.34 (2) (b).

4. Handrails shall be designed and constructed with a rigid intermediate barrier, or equivalent, capable of withstanding a minimum load of 100 pounds applied downward or horizontally.

Note: These are minimum standards for protecting average size adults. Handrails should be designed and constructed to discourage small children from climbing or swinging on, or passing through them.

(7) **RAMPS.** (a) Handrails shall be provided on both sides of all ramps with a slope of more than 1:12. The handrails shall be located between 30 and 34 inches above the ramp surface.

(b) 1. Except as provided in subd. 2., ramps with a slope of 1:4 shall not exceed 24 inches in width.

2. If the amusement ride or attraction has a ramp with a slope of 1:4 and a width greater than 24 inches, the department may grant an exception if an equivalent degree of safety is provided.

(c) 1. Except as provided in subd. 2., ramps shall not have a slope greater than 1:4.

2. If the amusement ride or attraction has a ramp slope steeper than 1:4, the department may grant an exception if an equivalent degree of safety is provided.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.25 Guarding. (1) **GENERAL.** All hazardous parts, such as but not limited to pinch points, shear points and in-going nips, of amusement rides and attractions shall be enclosed, barricaded or otherwise arranged to effectively prevent injury in accordance with recognized safe practice.

(2) **GUARD REMOVAL.** Guards removed for any purpose shall be replaced before normal operation is resumed.

(3) **HAIR AND CLOTHING.** Hair guards or cover guards shall be provided to prevent hair or clothing from being caught in operating equipment of ferris-type wheels.

(4) **WHEELS AND LEVERS.** Wheels and levers used by frequenters in the control of the action of the amusement ride or attraction shall be designed and maintained to prevent pinches, strains, abrasions and body actions that could result in injuries. Wheels and levers shall be padded. Wheels shall have a solid center in lieu of spokes.

(5) **HOT SURFACES.** Surfaces having a temperature in excess of 110°F shall be guarded or located to prevent bodily contact.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.26 Special controls. (1) **WHEN REQUIRED.** When the operator of an amusement ride cannot clearly see all loading and unloading areas, special devices shall be provided or special procedures shall be followed.

(2) **SPECIAL DEVICE.** (a) Class 1 amusement rides that have loading or unloading areas which cannot be clearly seen by the operator shall be equipped with a bell or similar audible warning device. The warning device shall be sounded prior to each operation.

Note: An example of this type of ride is a merry-go-round.

(b) Class 2 and 3 amusement rides that have loading or unloading areas which cannot be clearly seen by the operator shall be equipped with mirrors or other devices which provide the operator with full visibility of all such areas, or shall be operated only when an authorized attendant is stationed so that all loading and unloading areas are visible to the attendant.

Note: Examples of this type of ride are himalaya-type rides and flying bobs.

(3) **SPECIAL PROCEDURES.** When an attendant is required, communication with the operator shall be made when it is safe to start the amusement ride or attraction. A control interlock, such as a kill switch, shall be

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provided for the attendant to stop the amusement ride or attraction in case of an emergency.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.27 Identification. (1) **GENERAL.** Unique identification of each amusement ride and attraction and each passenger-carrying device, and operational information to facilitate the department's inspection, shall be provided to the department as required under this section.

(2) **RIDE AND ATTRACTION IDENTIFICATION.** (a) Information required in this section shall be clear, legible and permanent, such as die-stamped on the frame or included on a permanent plate securely attached to the amusement ride or attraction.

(b) Amusement rides and attractions shall be identified by their original name, model number and serial number. In the absence of such information, the owners shall provide unique identification of their own choice sufficient to properly identify the amusement ride or attraction.

(c) The maximum number of passengers and speed of operation, as specified by the manufacturer, shall be provided. When the manufacturer's specification is not known, the owner shall provide the values from an analysis or other means approved by the department. The department may accept capacity and speed proven by 7 years of acceptable field service of the amusement ride or attraction or similar amusement rides or attractions.

(d) When available, the manufacturer's name and address shall be provided.

(3) **PASSENGER-CARRYING DEVICE IDENTIFICATION.** Each passenger-carrying device on an amusement ride or attraction shall be identified by a permanent number or manufacturer's decal, at least one inch in height and located in a conspicuous place. Permanent ink markers are not acceptable.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.28 Design and construction of tents. The design and construction of tents shall comply with the requirements specified in ch. ILHR 62, subch. III.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.285 Chair lifts and sky rides. (1) **SAFETY BAR OR BELT.** Each carrier of a lift system used in conjunction with an amusement ride or attraction shall be equipped with a safety bar or belt that will not open under forward pressure.

(2) **DESIGN, CONSTRUCTION AND OPERATION.** Chairlifts, sky rides and gondola systems shall be designed, constructed and operated as specified in ch. ILHR 33 for the actual use condition including operating the system at full load condition while traveling in both directions.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

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Subchapter VI — Erection, Operation and Maintenance

ILHR 34.29 Location. (1) **STABILITY.** Amusement rides, attractions and structures shall not be located or erected where water, unstable soil or similar conditions could cause movement or tip-over.

(2) **ELECTRIC POWER LINES.** Amusement rides, attractions and structures, and the machinery used to erect them shall be located to provide at least 10 feet of clearance from any uninsulated overhead electric power line energized to more than 50 volts, but less than or equal to 50,000 volts. For lines energized to more than 50,000 volts, the minimum clearance shall be increased 0.4 inch for each 1,000 volts over 50,000.

Note: See ch. ILHR 16 for additional information.

(3) **DISTANCE BETWEEN AMUSEMENT RIDES AND OTHER OBJECTS.** (a) The minimum distance between amusement rides shall be such that the closest points on the passenger-carrying devices on adjacent amusement rides are at least 6 feet apart when both are in the position that brings them closest to each other.

(b) The minimum distance between amusement rides and fixed objects or fences shall be at least 4 feet.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.30 Assembly and disassembly. The assembly and disassembly of an amusement ride, attraction or structure shall be done by or under the supervision of an authorized person. Unauthorized persons shall not be permitted in the work area.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.31 Control of operation. (1) **AUTHORIZED OPERATORS.** (a) Operation of amusement rides, other than passenger-operated or passenger-controlled rides, shall be by authorized persons at least 18 years of age.

Note: See s. Ind 70.06 (1) for additional information.

(b) 1. Except as provided in subd. 2., amusement ride operators shall be in the immediate vicinity of the operating controls. They shall keep the controls under their direct supervision at all times during normal operation and shall watch to prevent dangerous actions by the passengers and to detect apparent mechanical failure.

2. Electrically-powered, coin-operated class 1 amusement rides having a maximum capacity of 6 passengers may be operated without an authorized operator.

(c) Amusement rides designed to carry children weighing 75 pounds or less shall be provided with a minimum of one operator per 2 amusement rides during the operating cycle of the amusement ride provided the following conditions are satisfied:

1. The number of passengers on both amusement rides does not exceed 25% of the total capacity of both amusement rides; and

2. The maximum distance between the controls of the 2 amusement rides does not exceed 15 feet.

(d) When the number of passengers of both amusement rides specified in par. (c) exceeds 25% of the total capacity of both amusement rides,

one operator may supervise 2 or more amusement rides provided that only one ride per operator is operating at any one time.

(e) All control devices shall be guarded against accidental operation.

(f) A disconnect, capable of being locked out, shall be provided at the operator's station to render amusement rides inoperable during inspection, maintenance and repair.

(2) **PASSENGER-CONTROLLED AMUSEMENT RIDES.** (a) Passenger-operated or passenger-controlled amusement rides shall have the controls located where they are readily available for use whenever the amusement ride is in operation.

(b) Clear verbal or written instructions, or both, for controlling the amusement ride shall be given to all passengers.

(3) **ACCIDENTAL OR MISCHIEVOUS OPERATION.** (a) A means to minimize accidental or mischievous operation of amusement rides shall be provided.

(b) Unattended amusement ride controls shall be arranged to prevent accidental or mischievous operation.

(4) **AUTOMATIC RESTART PROHIBITED.** All amusement rides and attractions constructed after March 1, 1986, shall be equipped and maintained with devices to prevent automatic restart after power failure, including, but not limited to, magnetic starters, magnetic switches and pneumatic clutches.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.32 Electrical. (1) **GENERAL.** (a) The installation of electric and communication conductors and equipment in conjunction with amusement rides and attractions shall comply with the provisions of ch. ILHR 16.

Note: The National Fire Protection Association Standard 70 - National Electrical Code (NEC) is adopted by reference in ch. ILHR 16.

(b) Live parts of electric equipment operating at 50 volts or more shall be guarded against accidental contact by enclosure or by locating the equipment as follows:

1. In a room or enclosure that is accessible only to authorized persons;
or

2. Elevated 8 feet or more above the ground, floor or other level accessible to frequenters.

(c) All wiring located within 8 feet of the ground, floor or other level accessible to frequenters shall consist of conductors in conduit, type-SO power cables or the equivalent.

(d) Any equipment or wiring known to be defective so as to endanger life or property shall be promptly repaired, permanently disconnected or isolated until repairs can be made.

(e) Cables and conductors entering boxes or fittings shall be protected from abrasion. Openings through which cables or conductors enter shall be restricted to that size necessary for the cable or conductor size.

(f) The voltage of exposed dark ride tracks or electric train tracks shall not exceed 50 volts.

(2) **OUTDOOR EQUIPMENT AND WIRING.** (a) Open overhead conductors shall be installed with a minimum vertical clearance of 18 feet over spaces where vehicles may travel and 12 feet over spaces accessible to pedestrians only.

(b) In locations where vehicles and frequenters regularly travel, cables shall be protected with mats, planks or other approved devices.

Note: See s. ILHR 34.29 (2) for additional information.

(3) **WIRING IN TENTS.** A vertical clearance of at least 8 feet shall be maintained between open conductors and the floor or other levels in a tent accessible to frequenters.

(4) **GROUNDING.** Noncurrent-carrying metal parts of equipment, raceways, and other enclosures shall be grounded by an equipment grounding conductor contained within the same raceway, cable, or cord or otherwise run with the circuit conductors.

Note: See NEC 250 for additional information.

(5) **OVERCURRENT PROTECTION OF CONDUCTORS AND MOTORS.** (a) Conductors shall be protected in accordance with their ampacities as specified in NEC 240.

(b) Motors shall be protected as specified in NEC 430.

(6) **MASTER SWITCH.** Each electrically operated amusement ride shall be provided with a disconnect switch or circuit breaker located within reach of the operator to permit disconnecting or shutting off the electrical power to the amusement ride.

(7) **SPLICES.** The repair of cables or conductors, No. 14 or larger, is permitted if the completed splice retains the insulation, other sheath properties and usage characteristics of the cable or conductor being spliced.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.33 Lighting of exits and passageways. Access to and exits from amusement rides, attractions and structures shall, while in operation or occupied, be provided with illumination by natural or artificial means of not less than 5 footcandles measured at all walking surface levels.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.34 Public protection. (1) **GENERAL.** Amusement rides and attractions shall be fenced, barricaded or otherwise arranged in accordance with recognized safe practice so that frequenters are effectively prevented from entering hazardous areas.

(2) **LOADING AND UNLOADING.** (a) Loading and unloading areas which are an integral part of the amusement rides and attractions shall be separated from moving parts by barriers or guardrails.

(b) A flexible barrier, such as a rope or chain, may be used to prevent access to the passenger-carrying devices provided the barrier is no longer than necessary and is controlled by an authorized attendant.

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(3) **SURFACES NOT INTENDED FOR WALKING.** Ride centers with moving sweeps shall be guarded by a standard guardrail or a center cover designed and maintained to safely support a minimum load of 200 pounds.

(4) **FLUORESCENT LIGHT TUBES.** Fluorescent light tubes on moving parts of amusement rides shall be sleeved or secured, or both, to prevent breakage and contact with frequenters.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.35 Fire protection. (1) **FIRE EXTINGUISHERS.** Approved fire extinguishers having a minimum 10-B:C rating shall be provided at each amusement ride powered by an internal combustion engine.

(2) **SMOKE DETECTORS.** Smoke detectors shall be provided in all dark rides, funhouses and similar structures.

(3) **EMERGENCY LIGHTING.** Emergency lighting shall be provided to assure safe egress from all rides operated in enclosed areas.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.36 Flammable and combustible liquids and gases. Storage, dispensing and use of flammable and combustible liquids and liquefied petroleum gases shall comply with requirements of chs. ILHR 10 and ILHR 11.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.37 Cleanliness. (1) **REFUSE CONTAINERS.** Refuse containers shall be provided in and around all amusement rides, attractions and structures. Accumulations of trash or refuse shall be removed with 24 hours.

(2) **SANITARY CONDITIONS.** All parts of amusement rides, attractions and structures used by frequenters shall be maintained in a clean and sanitary condition.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.38 Maintenance, repair and modification. (1) **GENERAL.** (a) Amusement rides, attractions and structures shall be maintained, repaired and modified in accordance with recognized safe practice.

(b) Improperly maintained, repaired or modified amusement rides shall not be allowed to operate until tests as specified in ss. ILHR 34.16 and 34.17 are conducted and the results accepted by the department.

(2) **CORRECTION OF DEFECTS.** (a) Defective, improper, worn or missing parts shall be replaced or repaired.

(b) Maintenance, repair and replacement parts shall be of a quality equal to or better than the original parts.

(c) All work shall be performed by a competent, qualified mechanic capable of understanding the function of the parts and the proper installation.

(d) Ungraded bolts, nails, fasteners and wire shall be used only for their intended purposes.

(e) Rotted, split and otherwise structurally unsound material shall be replaced.

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(f) Wire rope shall be serviceable and free of sharp ends. Wire ropes shall be replaced under any of the following conditions:

1. The number of broken wires in the length of one lay exceed the values specified in Table 34.38;

TABLE 34.38

Rope Type	Maximum Allowable Number of Broken Wires
6 x 7	4
6 x 19	6
6 x 37	10

2. More than one valley break occurs in one rope lay;

3. More than $\frac{1}{4}$ of the original diameter of the outside wires is lost due to abrasion, scuffing or peening;

4. There is evidence of deterioration due to corrosion;

5. Burning, kinking, knotting, crushing or other damage which changes the structure of the rope occurs; or

6. Reduction in rope diameter occurs at any point on the rope to less than 94% of the original nominal diameter.

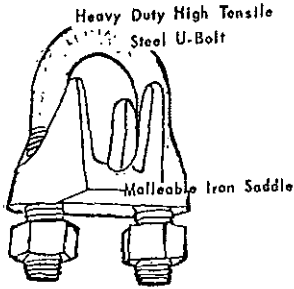
(g) Wire ropes shall be terminated using wire rope clips or other approved devices. Wire rope clips shall be installed as illustrated in Figure 34.38-1 or in an equivalent manner.

(h) All required safety pins and wedges shall be installed and they shall be secured with "R" keys, lynch pins, diaper pins or other devices in accordance with recognized safe practice.

(i) Safety cables, or their equivalent, shall be provided in accordance with recognized safe practice to prevent injury resulting from the failure of hangers, door hinges and similar parts. Safety cables shall be secured in a manner to maintain their design strength. The clipping of wire rope safety cables shall be as illustrated in Figure 34.38-2 or in an equivalent manner.

(j) Terminating ends of hydraulic and pneumatic lines shall be provided with restraints to prevent whipping in accordance with recognized safe practice.

(3) MODIFICATION. Modifications required by the manufacturer to improve amusement ride and attraction safety shall be made.



Attaching by CLIPPING



RIGHT WAY



WRONG WAY: clips staggered

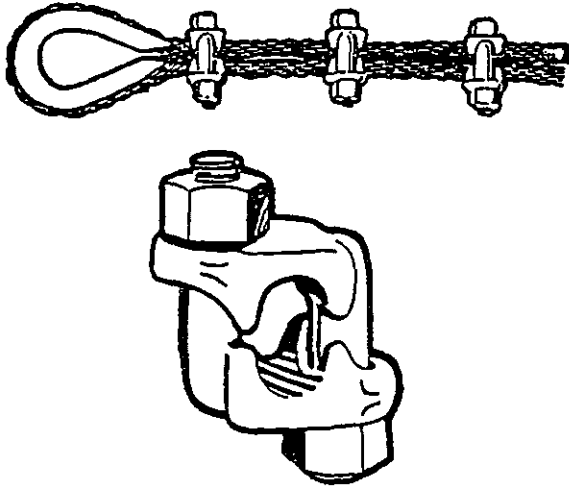


WRONG WAY: clips reversed

Wire Rope Clip Requirements for U-Bolt Clips

Rope Diameter Inches	Minimum Clips Required	Minimum Required Clip Spacing Inches
1/8	2	3
3/16	2	3
1/4	2	3-1/4
5/16	2	3-1/4
3/8	2	4
7/16	3	4-1/2
1/2	3	5
9/16	3	5
5/8	3	5-3/4
3/4	4	6-3/4
7/8	4	8
1	4	8-3/4
1-1/8	5	---

FIGURE 34.38-1
WIRE ROPE CLIPS

Double Saddle Clip
(Fist Grip Clip)

Wire Rope Clip Requirements for Double Saddle Clips

Clip Size Inches	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	Torque in Ft. Lbs.
3/16	2	4	30
1/4	2	4	30
5/16	2	5	30
3/8	2	5-1/4	45
7/16	2	6-1/2	65
1/2	3	11	65
9/16	3	12-3/4	130
5/8	3	13-1/2	130
3/4	3	16	225
7/8	4	26	225
1	5	37	225
1-1/8	5	41	360
1-1/4	6	55	360
1-3/8	6	62	500
1-1/2	7	78	500

FIGURE 34.38-1 (Continued)
WIRE ROPE CLIPS

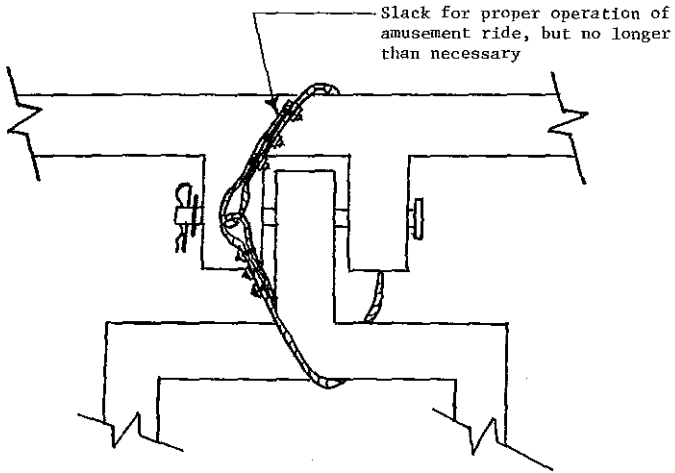
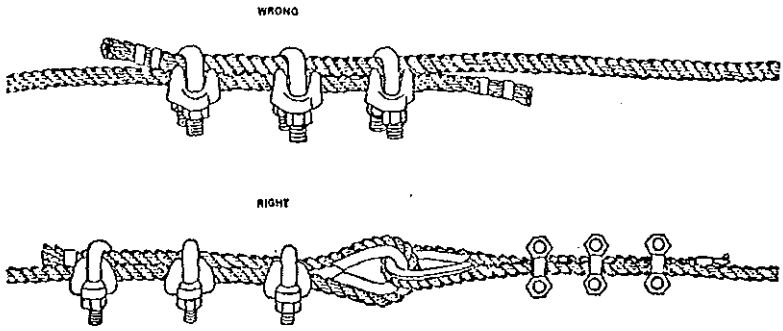


FIGURE 34.38-2
SAFETY CABLES

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.39 Welding. Welding of structural members and other critical parts of amusement rides and attractions shall comply with the requirements of s. ILHR 53.53.

Note: See Appendix for reprint of s. ILHR 53.53

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.40 Air compressors and equipment. Air compressors, air compressor tanks and related equipment shall be constructed, tested, maintained and inspected as specified in chs. ILHR 41 and 42.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.41 Accident reporting. Injuries to frequenters caused by amusement rides or attractions that require more than first aid treatment shall be reported by the owner to the department on form SBD-211 within 2 business days of the injury. A copy of the owner's report to the insurance carrier may be submitted in place of form SBD-211 if the report includes suggestions for prevention of similar accidents. Fatalities shall be reported within 24 hours of occurrence.

Note 1: See Appendix for a reprint of Form SBD-211 - Amusement Ride Accident Report.

Note 2: The department can be contacted at 608 266-3151 during normal business hours. The State Division of Emergency Government can be contacted at 608 266-3232 during non-business hours.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.42 Wind and storm hazards. An amusement ride which is exposed to wind or storms shall not be operated under dangerous weather conditions except to release or discharge occupants.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

ILHR 34.43 Responsibility of sponsors. Any person, group or business contracting or leasing for the installation and use of amusement rides or attractions shall carry a condition in a contract or agreement that the amusement ride or attraction owner meets the conditions of this chapter prior to the opening for use by frequenters.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

Subchapter VII — Go-Karts, Dune Buggies and All-Terrain Vehicles

ILHR 34.45 Go-karts, dune buggies and all-terrain vehicles. (1) **APPLICABILITY.** The provisions of this section shall apply to go-karts, dune buggies, all-terrain vehicles and similar rider-controlled vehicles which carry or convey passengers along, around or over a fixed or restricted route or course or within a defined area for use as an amusement ride. These provisions shall apply in addition to all other applicable requirements in this chapter.

(2) **VEHICLE REQUIREMENTS.** (a) All vehicles shall be equipped with passenger padding to minimize the risk of injury to the driver, such as steering wheel pad, headrest pad and steering wheel support post pad.

(b) All vehicles shall be guarded to prevent interlocking of wheels during operation, unless vehicle passing is not allowed.

(c) All vehicles equipped with seat belts shall be equipped with rollover protection in accordance with recognized safe practice.

(d) The maximum speed for a vehicle used by drivers under 52 inches in height shall be 8 mph. The speed of every vehicle shall be set at a limit not to exceed the maximum speed for which the track is designed and in accordance with recognized safe practice.

(e) Vehicles shall be equipped with a guarding system in compliance with recognized safe practice that covers or encloses all moving parts of the drive mechanism, except the wheels.

(f) Thermal protection shall be provided for the exhaust system.

(g) Vehicle fuel tanks shall be mounted or guarded in such a manner that provides protection to the driver during operation and if an accident should occur.

(h) The brake and speed controls shall be readily identified as to function and shall return automatically to a nonoperational position when released.

(i) The seat, back rest and leg area of every go-kart shall be so designed as to retain the driver on the go-kart in the event of a collision at the front, rear or sides of the go-kart.

(j) All vehicles shall be provided with impact absorbing bumpers or energy absorption body parts.

(3) TRACK AND COURSE REQUIREMENTS. (a) The surface of the track or course used by go-karts shall be smooth and of a solid and binding material, such as concrete or asphalt.

(b) The minimum width for go-kart tracks where vehicles travel more than 8 mph shall be 3 vehicle widths throughout the entire course or track.

(c) 1. A barrier system shall be installed around the inner and outer edges of the track or course used by go-karts, and it shall extend the entire length of the track or course. Openings in the barrier system for the entrance or exit of vehicles shall be protected in the direction of travel. The system shall consist of a guard rail, rubber tires, a runoff strip level with the track surface, or an embankment of friable earth or gravel or a combination thereof.

2. If rubber tires are used for a barrier system, the tires shall be free of the rims or wheels. The tires shall be installed to provide an effective barrier without allowing the go-karts to rise over them or penetrate underneath them.

3. If a metal, wood or fiberglass rail is used for a barrier system, the rail surface shall be kept free of sharp or protruding edges or seams, and it shall be maintained so that there is no loose or unsecured area.

4. A barrier system shall be installed to designate and protect the pit area or passenger loading area.

(d) A fence or railing system at least 42 inches high shall be installed at maintenance buildings, driveways, pit areas, and fuel storage pumping areas to keep frequenters from entering these track areas without the permission of, or direction by, the track personnel.

- (e) No intersecting track or course configuration shall be permitted.
- (f) Any pole, post or solid obstruction that may be accidentally struck shall be protected by a resilient, energy-absorbing system.
- (g) Fire extinguishers with a minimum 10-B:C rating shall be conspicuously located within 50 feet of the pit area and fueling point.
- (4) OPERATION REQUIREMENTS. (a) The attendants shall be able to clearly view the entire course.
- (b) The refueling of vehicles shall not take place in any area where frequenters are present. All fuel storage and fueling operations shall be in accordance with ch. ILHR 10.
- (c) During nighttime operation, track lighting with a minimum lighting level of 5 footcandles at the track surface shall be provided.
- (d) A means shall be provided to safely alert the drivers of the vehicles to a caution situation or to stop the vehicles in case of an emergency.
- (e) Smoking shall not be permitted while operating a vehicle or in the pit area.
- (5) SIGNS. (a) A conspicuous sign shall be posted at the ticket window or track entrance indicating at least the following information:
1. Minimum height of 52 inches for a driver of a standard go-kart.
 2. To start and stop only at the attendant's signal.
 3. To stay in the vehicle while on the track.
 4. Loose clothing and hair longer than shoulder length must be secured.
 5. To obey verbal instructions of the attendant.
- (b) A conspicuous sign shall be posted at the boarding or starting area indicating at least the following information:
1. To keep hands and feet inside the vehicle.
 2. To obey the attendant's signals.
 3. Bumping, stopping or U-turns on the track are not allowed.
 4. To stay on the track surface.
 5. To stay in the vehicle in the parking area until released by the attendant.
 6. No smoking in the pit area or while operating a vehicle.
- (c) A conspicuous sign shall be posted at the unloading area indicating that the driver is to remain seated until released by the attendant.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

Subchapter VIII — Waterslides

ILHR 34.50 Waterslides. (1) GENERAL. The provisions of this section shall apply to all waterslides where water is pumped to the top of a flume and allowed to flow down the flume to a plunge pool. These provisions

shall apply in addition to all other applicable requirements in this chapter.

Note: See chs. HSS 171 and 172 for further requirements for water recreation attractions.

(2) DESIGN. (a) All waterslides shall be designed and constructed in accordance with recognized safe practice.

(b) Waterslides shall be so designed that parts with external surfaces that may come into contact with a person using the waterslide are assembled, arranged and finished so that they are smooth and continuous and will not cut, pinch, puncture or cause an abrasion to any person.

(c) Waterslide channels shall be designed so as to keep each person using the waterslide safely inside the channel.

(d) All curves, turns and tunnels on the path of a flume shall be designed and constructed so as not to present a hazard to anyone using the slide.

(3) OPERATION. (a) At least one attendant at the top and one attendant at the bottom shall be provided at all waterslide operations.

(b) A means of 2-way communication between the attendants shall be established.

Note: See ch. HSS 172 for additional requirements relating to attendants and signs for waterslide operations.

History: Cr. Register, February, 1992, No. 434, eff. 3-1-92.

APPENDIX

The material contained in this Appendix is for clarification purposes only. The notes, illustrations, diagrams and similar material are numbered to correspond to the number of the rule as it appears in the text of the code.

A 34.04 (2) INFORMATION REQUIRED. The following forms (SBD-5292 and SBD-7620) are referred to in s. ILHR 34.04 (2) (d) Note. Copies of these forms are available from the Bureau of Safety Services, Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin, 53707.

Wisconsin Department of Industry,
Labor and Human Relations
Safety and Buildings Division

AMUSEMENT RIDE REGISTRATION

1992

Bureau of Safety Services
P.O. Box 7969
Madison, WI 53707
Telephone (608) 266-2780

Sections ILHR 34.04 (1) and Ind 69.07 of the Wisconsin Administrative Code require that amusement rides be registered with the Department of Industry, Labor and Human Relations each calendar year.

Please provide all information requested below.

Ride Operation Business Name, Street Address, City, State, Zip Code:	Owner Name (if different from business name)
	Owner Street Address
	City, State, Zip Code
	Owner/Business Telephone Number Owner () Business ()

FEES: Provide number of rides being registered and total remittance for each category below.

PORTABLE or PERMANENT RIDES: _____ rides at \$40.00/ride = \$ _____ fee attached.

COIN-OPERATED KIDDIE RIDES: _____ rides at \$20.00/ride = \$ _____ fee attached.

Registration tags will be sent upon receipt of completed forms and appropriate fees.

RIDE IDENTIFICATION: Complete the attached listing of rides (form SBD-7620) by serial number and owner. Also provide latest test date of Non-Destructive testing for class 2 and 3 rides, where required by manufacturer and recognized safe practice.

ROUTE OR ITINERARY: Your registration will not be processed if the necessary route/itinerary information is not provided on page 2 (attached) or it is discovered that you have not complied with any one or more of the following items.

AMUSEMENT RIDE REGISTRATION REFUSAL

- 1. Unabated Safety Related Orders By DILHR
- 2. Outstanding Registration And Inspection Fees
- 3. Incomplete Registration Form Or Inadequate Fees
- 4. Certificate of Insurance

Registration stickers shall be posted in a conspicuous place viewed by the public.

INSURANCE: Evidence of Liability Insurance and Worker's Compensation must be shown below. Please attach copy of certificate of insurance. Proof of ability to pay damages will be accepted in lieu of liability insurance.

Worker's Compensation - Provide Insurance Company Name:	Policy Number:
Liability Coverage - Provide Insurance Company Name And Send Copy Of Certificate:	Policy Number:

SBD-5292 (R. 10/91)

- LIST ROUTE OR ITINERARY ON ATTACHED PAGE 2 -

1992 ROUTE OR ITINERARY

OPERATION DATE WEEKEND	LOCATION/SPONSOR	STREET ADDRESS	CITY
4/24 - 4/26			
5/01 - 5/03			
5/08 - 5/10			
5/15 - 5/17			
5/22 - 5/24			
5/28 - 5/31			
6/05 - 6/07			
6/12 - 6/14			
6/19 - 6/21			
6/26 - 6/28			
7/03 - 7/05			
7/10 - 7/12			
7/17 - 7/19			
7/24 - 7/26			
7/31 - 8/02			
8/07 - 8/09			
8/14 - 8/16			
8/21 - 8/23			
8/28 - 8/30			
9/04 - 9/06			
9/11 - 9/13			
9/18 - 9/20			
9/25 - 9/27			
10/02 - 10/04			
10/09 - 10/11			
10/16 - 10/18			
10/23 - 10/25			

SAMPLE

Wisconsin Department of Industry,
Labor and Human Relations
Safety and Buildings Division

AMUSEMENT RIDE REGISTRATION LISTING
1992

Bureau of Safety Services
Safety Inspection Section
P.O. Box 7969
Madison, WI 53707
Telephone (608) 266-2780

NOTE: Do not place any entries in the last column at the right. The department will enter that number.

RIDE NAME	SERIAL NO.	OWNER NAME	LAST NON-DESTRUCT TEST DATE (Where Required) AND TESTING AGENCY NAME (Do Not List DILHR)	REGISTR # (assigned by DILHR)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				

SAMPLE

Wisconsin Department of Industry,
Labor and Human Relations
Safety and Buildings Division

AMUSEMENT RIDE REGISTRATION LISTING
1992

Bureau of Safety Services
Safety Inspection Section
P.O. Box 7969
Madison, WI 53707
Telephone (608) 266-2780

NOTE: Do not place any entries in the last column at the right. The department will enter that number.

RIDE NAME	SERIAL NO.	OWNER NAME	LAST NON-DESTRUCT TEST DATE (Where Required) AND TESTING AGENCY NAME (Do Not List DILHR)	REGISTR.# (assigned by DILHR)
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				
31.				
32.				
33.				
34.				

SAMPLE

INDUSTRY, LABOR & HUMAN RELATIONS
ILHR 31

A 34.11 PETITION FOR VARIANCE. The following form (SB-8) is referred to in s. ILHR 34.11. Copies of this form are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.

PETITION FOR VARIANCE APPLICATION

Wisconsin Department of Industry, Labor and Human Relations
Safety and Buildings Division
201 East Washington Avenue, P.O. Box 7969
Madison, Wisconsin 53707
608/266-3151

<small>OFFICE USE ONLY</small>		<small>OFFICE USE ONLY</small>
Amount Paid		Petition No.
Receipt No.		E-Number

Name of Owner/Petitioner	Building or Project	Agent, Architect or Engineering firm
Company	Tenant Name, if any	Street & Number
Street & Number	Location, Street & Number	City State Zip Code
City State Zip Code	City County	Telephone Number
Telephone Number	Plan Number, if known	Name of Contact Person

1. The rule being petitioned reads as follows: (cite specific rule number and language)

2. The rule being petitioned cannot be entirely satisfied because:

3. The following alternative(s) and supporting information are proposed as a means of providing an equivalent degree of health, safety or welfare as addressed by the rule:

SAMPLE

Note: Please attach any pictures, plans, sketches or required position statements.

VERIFICATION BY OWNER - PETITION IS VALID ONLY IF NOTARIZED AND ACCOMPANIED BY REVIEW FEE

See Section Ind 69.15 for complete fee information

Note: Petitioner must be the owner of the building or project. Tenants, agents, designers, contractors, attorneys, etc. may not sign petition unless a Power of Attorney is submitted with the Petition for Variance Application.

_____, being duly sworn, I state as petitioner that I have read the foregoing petition, that I believe it to be true and I have significant ownership rights in the subject building or project.

Signature of Petitioner Subscribed and sworn to before me this date: _____

Notary Public My commission expires: _____

SB-R(09/88)

§ 34.17 (1) BALANCED LOAD TEST. The anthropometric data presented in reference 1 indicates correlation between hip width and body weight. Assuming that the hip width determines the number of persons that can occupy an amusement ride passenger space, the total weight can be estimated from hip width vs. body weight data if the dimensions of the space are known.

Figure 1 represents a conservative estimate of hip width vs. body weight for the American public. This data should be used to determine the weight to be placed in each passenger space when an amusement ride is load tested in accordance with s. ILHR 34.17.

Example of the use of this data:

Rated capacity of space 3 adults
 Hip space 46 inches
 Hip space per person $\frac{46}{3} = 15.33$ inches
 Corresponding body weight..... 187 pounds (see Figure 1)
 Total load weight = $3 \times 187 \times 1.75 = 981.75$

Reference 1: "Personnel Guardrails for the Prevention of Occupational Accidents," Document No. NBSIR 76-1132, Center for Building Technology, Institute of Applied Technology, National Bureau of Standards, Washington, D.C. 20234, July 1976, Final Report.

DATA FOR ESTIMATING WEIGHT OF ADULT MALE PASSENGERS THAT CAN REASONABLY OCCUPY SPACE ON AMUSEMENT RIDES

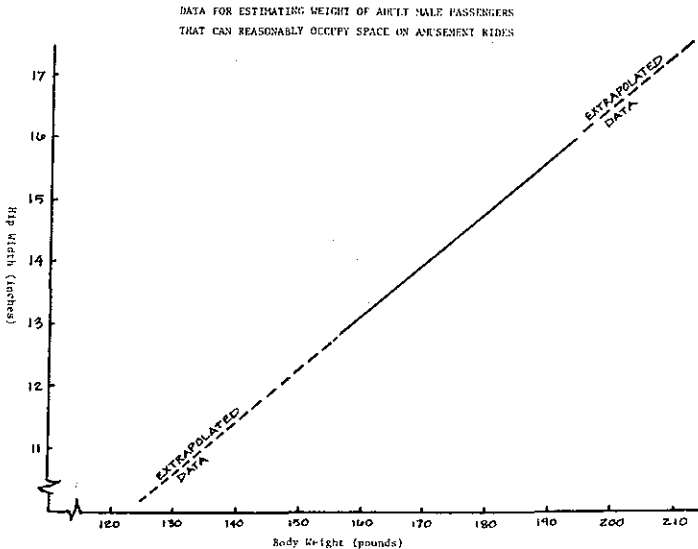


Fig. 1

✓ A 34.39 WELDING. The following is a reprint of s. ILHR 53.53 from the Wisconsin Administrative Building and Heating, Ventilating and Air Conditioning Code:

ILHR 53.53 Structural welding of steel. The requirements of this section shall apply to all welds on or between materials within the scope of ss. ILHR 53.50, 53.51 and 53.52.

(1) BASE METALS. Steels to be welded under this code are listed in AWS D 1.1, sections 8.2 and 10.2 or AWS D 1.3, section 1.2.1.

(2) FILLER METALS. Filler metal requirements that are acceptable under this code are listed in AWS D 1.1, section 4.1 or AWS D 1.3, section 5.

(3) WELDING PROCESSES. (a) Manual shielded metal arc, submerged arc, gas metal arc and flux cored arc welding processes conforming with the procedures established in AWS D 1.1, sections 2, 3 or 4 shall be considered as prequalified and are approved for use without performing procedure qualification tests.

(b) Electroslag and electrogas welding processes will not be considered as prequalified. They may be used provided a procedure is developed and provided it conforms to the applicable provisions of AWS D 1.1, sections 2, 3 or 4.

(4) WELDING PROCEDURES. (a) *Procedure specification.* All welding procedures shall be prepared as a written procedure specification. This written procedure specification shall be prepared by the manufacturer, fabricator or contractor and shall be made available to the department or its designated testing agent prior to commencing a weld test.

(b) *Procedure qualification.* All joint welding procedures shall be previously qualified by tests as prescribed in AWS D 1.1, section 5.6, except for the prequalified procedures exempted in sub. (3) (a). The test shall be conducted by the department or its designated testing agent. The test results of a test conducted by a designated testing agent shall be submitted by the agent to the department for approval.

(5) DESIGN OF WELDED CONNECTIONS AND JOINTS. The details of all joints shall comply with the requirements of AWS D 1.1, section 2 and section 10, parts C and D. All joint forms, except those specified in AWS D 1.1, section 2 and section 10, parts C and D, may not be used unless qualified to the satisfaction of the department.

(a) *Stud welding.* Stud welding shall be done by a procedure qualified in accordance with the requirements of AWS D 1.1, section 4, part F.

(6) OPERATOR QUALIFICATIONS. All structural welding work shall be done by certified [as defined in sub. (7)] welders. The required qualification test shall be conducted by the department or its designated testing agent. The weld test report of a test conducted by a designated testing agent shall be submitted by the agent to the department for evaluation. Test specimens shall be submitted when requested by the department.

(a) The manual welders shall be tested and qualified in accordance with AWS D 1.1, section 5, part C or AWS D 1.3, section 6.

(b) The manual tackers shall be tested and qualified in accordance with AWS D 1.1, section 5, part E.

(c) The welding machine operator shall be tested and qualified in accordance with AWS D 1.1, section 5, part D.

(7) **OPERATOR CERTIFICATION.** The department will issue to the welder or welding machine operator who has successfully passed the prescribed qualification tests, a certificate bearing his name, social security number, identifying mark, the process, the procedure specification number and other pertinent information from his qualification test. This certificate will remain in effect for 3 years provided the operator is continuously engaged in welding operations without an interruption of more than 3 consecutive months. If the interruption exceeds 3 consecutive months, the certificate shall automatically become void.

(a) Each manual welder and tacker or welding machine operator shall be retested every 3 years in accordance with sub. (6).

(b) Each manual welder and tacker or welding machine operator certificate which has become void due to welding operation interruption exceeding 3 consecutive months or having exceeded the 3-year certificate time limit can be renewed only by retesting at an approved testing laboratory.

(8) **WELD IDENTIFICATION.** Each structurally significant member shall have its welding identified by a distinguishing mark stamped on the member by the certified welders involved.

(9) **CRITERION OF FINAL ACCEPTANCE.** All structural welding is subject to examination by approved inspectors and such inspection shall be the final criterion for conformance and acceptability for the intended use.

(10) **STRUCTURAL WELDING DONE OUTSIDE THIS STATE.** All welding shall conform with the requirements of this section, except the requirements of sub. (7). In lieu of operator certification, manufacturers and suppliers of structural steel shall, prior to commencing any welded construction, submit evidence of procedure qualification, if not prequalified, and welder certification that has been approved by an independent testing laboratory which is acceptable to the department. Manufacturers and suppliers are required to keep the welder certification current.

Note: The welder certification requirement may be submitted and kept current by having the approved testing laboratory submit a list of certified welders to the department. The submittal may be a part of the materials approval information submitted for s. ILHR 50.19 or may be submitted separately for the manufacturers not having a materials approval.

A 34.41 ACCIDENT REPORTING. The following form (SBD-211) is referred to in s. ILHR 34.41 Note. Copies of this form are available from the Division of Safety and Buildings, Bureau of Safety Services, P.O. Box 7969, Madison, Wisconsin 53707.

INDUSTRY, LABOR & HUMAN RELATIONS

ILHR 34

41

Wisconsin Department of Industry,
Labor and Human Relations
Safety and Buildings Division

AMUSEMENT RIDE ACCIDENT REPORT

Bureau of Safety Services
P.O. Box 7965
Madison, WI 53707
Telephone (608) 266-2780

The owner / operator of the amusement ride shall notify the Department of Industry, Labor and Human Relations of every accident involving personal injury which requires medical attention (Section ILHR 34.41, Wis. Adm. Code).

This form must be submitted within TWO (2) DAYS after accident or injury. Penalties for failure to report are provided in Section 101.02, Wis. Stats.

Report Date	Accident Date	Carnival or Show Name
Ride Serial Number	Ride Name	
Ride Manufacturer		Ride Location At Time of Accident
Name of Operator Responsible For Ride		Address of Operator Responsible For Ride
Liability Insurance Company Name and Address		Number of Injured Persons
Name(s) and Address(es) of Injured Person(s)		
Signature of Injured Person(s) or Their Representative If Possible:		
Extent of Injuries <input type="checkbox"/> Bruises <input type="checkbox"/> Severe <input type="checkbox"/> Broken Bones <input type="checkbox"/> Fatal <input type="checkbox"/> Other - Specify:		Was injured person(s) your employee? <input type="checkbox"/> Yes <input type="checkbox"/> No
Describe to the best of your knowledge the cause of the accident:		
In your opinion, what would prevent recurrence of similar accidents?		
Signature of Person Reporting	Position	Date Signed

SD-211 (R. 01/81)

SAMPLE