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SUPERSEDES:

SERVICE BULLETIN

Effective Serial Number:

Ride: ALL RIDES

Subject: Field Performance Testing of
Amusement Rides

The following specifications conform with ASTM F846 standard guide for Testing Performance of Amusement Rides and Devices, in effect on date of ride manufacture.

1. Erection or Installation Testing: Each erection or installation of a ride shall be given an inspection prior to carrying passengers that shall include but not be limited to the following:
 - A. Determine that ride has been erected according to set-up procedures included in the operations manual.
 - B. Inspect field inspection points listed in the Field Inspection Guide.
 - C. Visual check of all passenger carrying devices including restraint devices and latches, and the pins and capscrews securing them.
 - D. Visual inspection of entrances, exits, stairways and ramps and devices securing them.
 - E. Test of all communications equipment necessary for operation of the ride or device.
 - F. Operate ride to determine that direction of travel conforms to the information plate, ride manual, field inspection guide or specification sheet.
 - G. Operate the ride for a minimum of three ride cycles to determine that the ride speed does not exceed the speed specified in the information plate, ride manual, field inspection guide or specification sheet.
2. Daily Pre-Opening Inspection: This inspection shall include a daily inspection of all items as specified in the previous Section 1. Erection or Installation Testing.
3. Documented Field Performance and Operational Testing: Documentation and certification shall be performed by a person who by demonstrated education and field experience is knowledgeable with the construction, erection, operation, maintenance and repair of amusement rides.

4. Operational Load Testing: Any operational test including load testing performed on a ride shall be completely nondestructive in nature. Overload testing exceeding the rated limits listed on the information plate, operation manual, field inspection guide or specifications sheet shall be deemed inappropriate. Where maximum total passenger weight is not readily available passenger capacity multiplied by 170 pounds per adult and/or 90 pounds per child may be used.

Nondestructive testing with inert loads can be accomplished only with special care as to placement of the load so that it is centered both vertically and horizontally as would be the load of the passenger it replaces. Extra seat reinforcement must be used to offset any load concentration created. Such tests shall be documented and certified as nondestructive by the person making the test and the agency requiring it. Results of all load tests shall be communicated to the factory upon completion by the Certifying Agency.

Conducting a nondestructive operational load test assures the testing agency only that it will carry a given load in a given way at a given moment and in no way assures future safety of the ride.

Conducting a destructive load or overload test also assures the testing agency that it will carry a given load in a given way at a given moment and in no way assures future safety of the ride. However, it also introduces the probability of inflicting serious irreparable damage to the ride that may or may not be apparent at the time of the test...

We consider inert load testing of any nature appropriate only for situations requiring experimental development of stress-strain testing during prototype development. A certificate of load test on the prototype and certification that each production ride met the design criteria when it was manufactured is available from the factory upon request.