

G. K. R.

GENERAL KIDDIE RIDES, INC
730 NOLANA, McALLEN, TX 78504
(512)-630-0770

TO: Owners of Vikingo Ship
Pirate Ship
Typhoon Ship

MAR 28 1991

FROM: Miguel Araujo

SUBJECT: Metal Fatigue Testing

DATE: March 21, 1991

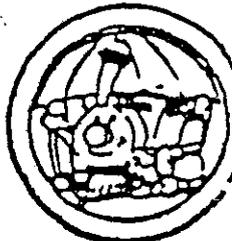
General Kiddie Rides recommends a non-destructive test according to (ASTM), F-24 Committee Standards on Amusement Rides and Devices

<u>NAME OF RIDE</u>	<u>COMPONENT</u>	<u>FREQUENCY</u>
Vikingo Ship Pirate Ship 70 Degrees	Main Axle and Axle Housings	Visual/Annually every 3 years: Magnetic Particle/X-Ray
	Welded areas of legs	Visual/Annually every 3 years: Dye Penetrant/ Magnetic Particle
	Change of Security Belts	Annually
<hr/>		
Typhoon 360 Degrees	Main Axle and Axle Housings	Annually/Magnetic Particle/ Dye Penetrant/ X-Ray
	Welded on Shoulder Supports	Annually/Magnetic Particle/ Dye Penetrant
	Welded areas of legs	Annually/Magnetic Particle/ Dye Penetrant
	Revision of the gear teeth that support the shoulder harnesses	Visual every 3 months
	Change of the Security Belts	Every year (or before, according to the Laws of the State or state of deterioration)
	Welded areas of counterweight	Annually/Magnetic Particle/Dye Penetrant

RECEIVED

APR 01 1991

DEPARTMENT OF LABOR
CARNIVAL & AMUSEMENT RIDE
INSPECTION DIVISION





ILLINOIS DEPARTMENT OF LABOR

SHINAE CHUN
Director

April 10, 1991

Miguel Araujo
General Kiddie Rides, Inc.
730 Nolana
McAllen, Texas 78504

Dear Mr. Araujo:

RE: METAL FATIGUE TESTING

I was recently forwarded a copy of your March 21, 1991, memo on Metal Fatigue Testing for the Viking, Pirate and Typhoon amusement rides. Unfortunately, the memo leaves many questions unanswered.

I have talked to other state's agencies and they also have the same questions and concerns that I have. My questions and concerns are:

1. Specifically, which ASTM Committee Standard are you referring to?
2. A drawing or sketch of the component to be checked would be of immense value to the technician performing the test. The drawing should have basic dimensions and be marked to show the area(s) of concern.
3. The frequency of testing, especially the main axle and housing, could be interpreted in at least four different ways. As presently stated, it is a lawyer's delight. The wording and/or punctuation should be changed to show precisely what type of nondestructive test is required and at what frequency.
4. If the security belts are to be changed annually, how can an inspector who sees the ride in mid-season be assured that the belts have been changed?
5. For clarity of thought, "Revision of the gear teeth" should read "Wear of the gear teeth". The only question then is: At what point is the wear considered excessive?

If the states are going to enforce the bulletin uniformly, these points of concern must be clarified.

Page 2

Your cooperation in resolving this matter promptly will be appreciated as the carnival season has already started in Illinois.

Sincerely,

Carl Kimble

Carl Kimble, P.E.
Chief Inspector
Carnival & Amusement Rides
Telephone: 217-782-9347

CK:rh

cc: D. Davis, South Carolina
M. Lovelady, Georgia
L. Cavalier, Ohio
C. Dills, Kentucky
L. Parrish, Florida