Flying Coaster SUPERMAN ULTIMATE FLIGHT

Six Flags Great Adventure

LIST OF MANUFACTURER'S NOTICES

Manufacturer's Notice #	<u>Date</u>
1 / 04	April 5, 2004
3 / 04	April 5, 2004
5 / 04	July 1 2004

BOLLIGER & MABILLARD CONSULTING ENGINEERS INC.

des Dailles 31 70 Monthey Switzerland

Tel. +41 244 721 580 Fax +41 244 719 584 info@bmdesign.ch

SIX FLAGS GREAT ADVENTURE

Attn: Mr. Don Burkholder,

Director of Maintenance &

Construction

Route 537

Jackson, NJ 08527, USA

O/ref.: G. Petitpierre / E. Berra / ru

April 5, 2004

Flying Coaster SUPERMAN ULTIMATE FLIGHT

Dear Don,

We send you hereenclosed:

♦ Manufacturer's notice # 1/04

Purpose of this notice is to clarify the procedure for the daily and weekly inspection of the anti-return SPRAG element on the lift drive unit.

We draw your attention to the fact that the anti-return SPRAG is a major safety device. The ride shall not be operated with a faulty anti-return SPRAG.

Manufacturer's notice # 3/04

Purpose of this notice is to require an additional inspection of the vehicle central beam/coupling receiver.

Please do not hesitate to contact us should you have any question regarding these notices.

We thank you in advance for your help with this matter.

Sincerely,

Glaspin . Telle Fric

IMPORTANT MANUFACTURER'S NOTICE

Park

SIX FLAGS GREAT ADVENTURE

Roller Coaster

Flying Coaster Superman Ultimate Flight

Purpose of this notice is to clarify the procedure for the daily and weekly inspection of the anti-return SPRAG element on the lift drive unit.

Daily inspection:

- Listen to the SPRAG for abnormal noise. In case of abnormal noise:
 - inspect the SPRAG to find the cause of the noise
 - carry out the inspection as specified for the weekly inspection.
- When the train is stopped on the lift for the block check, check that the rubber bumper holding the torque arm is compressed, indicating that the SPRAG is operating correctly.

Weekly inspection:

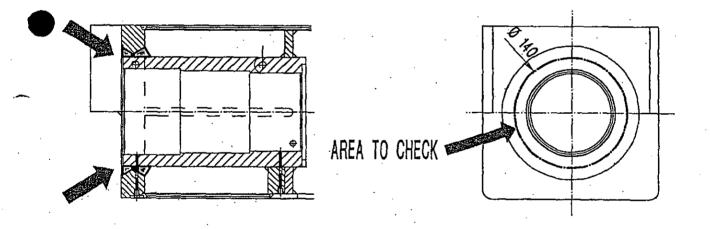
- a) Stop the train on the lift so that no anti-rollback dogs are in contact with the anti-rollback rack. It may be necessary to stop several times the train on the lift to get that result.
- b) Check the compression of the rubber bumper holding the torque arm. It must be compressed by at least 3 to 4 mm (min 1/8") indicating that the SPRAG is operating correctly.

IMPORTANT MANUFACTURER'S NOTICE

Park : SIX FLAGS GREAT ADVENTURE

Roller Coaster : Flying Coaster Superman Ultimate Flight

 We draw your attention to the fact that one crack was found in the weld between the front plate of the central beam and the pipe of the coupling receiver on a B&M coaster.



2. INSPECTION

2.1 GENERAL

THE AREA SHOWN ABOVE SHALL BE INSPECTED AT LEAST ONCE A YEAR AS FOLLOWS:

- a) dismantle the fork and the front thrust washer on each vehicle.
- b) magnetic particle inspection of the area shown above.

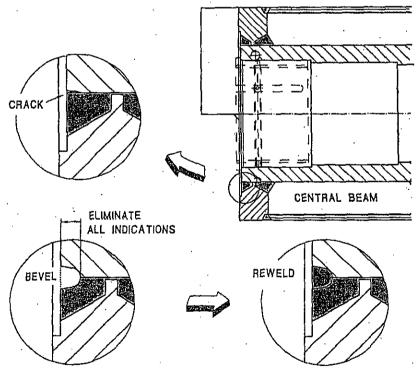
2.2 IMMEDIATE ADDITIONAL INSPECTION

- a) No immediate additional inspection is required for the Park who did carry out the inspection as indicated under paragraph 2.1 above within the last six months (e.g. inspection carried out during the annual maintenance as per the maintenance manual).
- b) For the Parks who did not carry out the inspection as indicated under paragraph 2.1 above within the last six months, an inspection in accordance with paragraph 2.1 above shall be carried out within 45 days.

3. INFORMATION TO THE MANUFACTURER

Bolliger & Mabillard shall be informed of any crack found. Vehicles presenting cracks shall not be operated.

A repair can be conducted according to the following instructions:



- 1. Eliminate the crack by grinding and prepare the bevel as shown.
- 2. Preheat at 180 200 F°
- 3. Reweld the root using TIG process.
- 4. Liquid penetrant test after the first pass.
- 5. Finish welding using SMAW or GMAW.
- 6. Final NDT check.
- 7. Grind the surface flush using a gauge.
- 8. Touch up paint.

BOLLIGER & MABILLARD

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SIX FLAGS GREAT ADVENTURE

Attn: Mr. Don Burkholder,
Director of Maintenance &
Construction
Route 537
Jackson, NJ 08527-0120, USA

O/ref.: E. Berra / me

July 1st, 2004

Flying Coaster SUPERMAN ULTIMATE FLIGHT

Dear Don,

We send you hereenclosed:

Manufacturer's notice #5/04

Purpose of this notice is to reemphasize the importance of following the appropriate checking procedure of the "train error bypass mode" recently added to the control system of the Superman Ultimate Flight Flying Coaster.

Please do not hesitate to contact us, should you have any question regarding this notice.

Sincerely,

(thereic L.)

IMPORTANT MANUFACTURER'S NOTICE # 5/04

Park

SIX FLAGS GREAT ADVENTURE

Roller Coaster

Flying Coaster SUPERMAN ULTIMATE FLIGHT

- 1) The train error bypass mode overrides the control system inputs. Any operation must be performed by <u>trained and responsible personnel</u> who fully understand the ride.
- 2) Train motion should not occur in or after train error bypass mode unless the train is empty! <u>Do not dispatch any train with guests!</u>
- The permissives of all harnesses being locked, all pins being engaged, or all pins being retracted <u>must be used with extreme caution</u>. **DO NOT** confirm these permissives without <u>fully checking</u> every seat to be locked and every pin to be engaged / retracted.

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