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## Tivoli Manufacturing Ltd. Spin Out NDT inspection requirements

NAFLIC is in receipt of a safety bulletin from Tivoli Manufacturing Ltd. relating to Spin Out rides (aka El Nino, Maelstrom). This bulletin has been issued to all Spin Out operators to describe and clarify the future NDT inspection requirements for the Spin Out seat arms, as indicated in bulletin SOSA019A.

*The information contained within is that of the manufacturer and not NAFLIC. When following the advice from the manufacturer, you are reminded of your duties and responsibilities under HSG175 regarding modifications.*

Committee Members: Mr. D Dadswell (Chairman), Mr. A Mellor (Secretary), Mr. P Smith, Mr. J Green,  
Mr. D Cox, Mr. I Davies, Mr. J Shilling, Mr. D Inman & Mr. R Hiscoe

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Supported By:



# Tivoli Mfg. Ltd.

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## **Safety Bulletin**

**Bulletin No:** SOSA021

**Ride Type:** Spin out  
(aka. El Nino, Maelstrom)

**Date:** March 29, 2018

**Rides Included:** All Rides

**Pages:** 1 of 2

**Parts supplied:** N/A

**Purpose:** Supplement to Spin Out Safety bulletin SOSA019A

This bulletin is being issued to all Spin Out operators to describe and clarify the future NDT inspection requirements for the Spin out Seat arms as indicated in Bulletin SOSA019A.

KMG the designer of the Spin Out has verified that there is no failure in the design of the seat arm. A copy of the stress calculations can be supplied on request. Since the Tivoli Manufactured Spin Outs had a closed bolt plate limiting the chance of moisture entering the support tube, the following inspections will be required in order to allow future use of the ride.

- A Full NDT inspection as outlined in Bulletin every 6 months of continuous operation
- Visual inspection of areas described in Bulletin SOSA019A on a weekly bases. This inspection can be carried out by qualified operators or owner's qualified maintenance personnel

If any irregularities are found please contact manufacture immediately

Passing this inspection, following all inspection and operating procedures outlined in Operators Manual and subsequent safety or Service bulletins will allow the ride to be operated.

**All Spin Out rides are approaching or have exceeded 20 years of operation. Tivoli is not aware of the conditions and / or environment that these rides have been operating in. As these rides are getting older Tivoli Mfg. Ltd. recommends that there be a more stringent inspection of the ride structure for signs of corrosion and or cracking. All Structural components not normally inspected on regular bases should be inspected more frequently. Any abnormalities should be reported to Tivoli immediately. All inspections must be carried out by qualified technicians trained in proper inspection procedures.**

**If a manual is required by any operator or inspector it can be sent free of charge (pdf only) if an email request is sent to [worldride@sbcglobal.net](mailto:worldride@sbcglobal.net)**

**If there are any questions please contact Tivoli Mfg. Ltd or WorldRide Service & Supply Inc. (817-641-5045)**

**Tivoli Mfg. Ltd.**