

# NAFLIC

*National Association For Leisure Industry Certification*

## **Standards & Related Documents Committee**

### **TECHNICAL BULLETIN - JUNE 2004**

#### **281. Spin Out Accident - Update**

In our Technical Bulletin 257 in February 2003, we reported on an accident in Puerto Rico. The "Spin Out" involved in the accident was manufactured by Tivoli Enterprises Ltd of Canterbury, England. However, we understand that these rides are built under licence from KMG of the Netherlands and that they are identical to the "Move It" (of which there are 24 and 32 seat versions).

The Spin Out has six radial arms, each carrying four dangling-leg seats, attached to a central hub which rotates at 15 rpm. The original arm design dating from about 1995 is of a fabricated box construction, varying in depth along its length. (A more recent version uses 300 x 200 x 5 RHS). There are top and bottom cover plates welded to the box near the inner end.

In TB 257, in addition to discussion of the accident, the issues, and the history of this arm design, we referred to some Safety Bulletins which we had not seen at the time. We have now had the opportunity to look at several of these and we note that there are others which we have not seen. There is also a brief Amusement Ride Safety Bulletin from the U.S. Consumer Product Safety Commission, dating from 30 March 2004.

The bulletins require modifications to be made but also give guidance on inspection. We make no particular technical comment on the contents of the bulletins, which do not include any assessment of the extent to which the modification will increase or reduce the fatigue life of the component.

We note that, for any of these rides to comply with *Fairgrounds and Amusement Parks - Guidance on Safe Practice* (HSG 175; HSE Books; ISBN 0 7176 1174 4) in Great Britain, the modifications advocated by Tivoli or KMG would be clearly "safety critical". They would therefore be expected to undergo Design Review, Assessment of Conformity to Design, and Initial Test by inspection bodies with appropriate registration under ADIPS<sup>2</sup>.

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<sup>2</sup> ADIPS - the Amusement Device Inspection Procedures Scheme is governed by the following British member organisations: ACES, AIS, BACTA, BALPPA, NAFLIC, SGGB and SIRP in conjunction with the Health & Safety Executive (a government agency).

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