

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Sub-Committee

TECHNICAL BULLETIN - JUNE 1996

135. Formula XXXX Type Rides - Idees Loisirs S.A.

In September 1994 we reported on some problems encountered on these rides (Technical Bulletin 096). We have received a further report from Safety & Safety Consultancy Ltd that all of the electrical problems listed in that previous Technical Bulletin still exist as follows, as well as some others to which we would draw attention. There are several types of these popular devices, and the faults outlined may not appear in all versions. Firstly, we reiterate from TB 096 :-

1. The connections to the "traffic light" effects in the centre of the ride are supplied as open connector blocks, and as this area is open to the elements, consideration should be given to replacing these connectors with waterproof types.
2. The same comment applies to the flashing lights affixed to the railings, where open connector blocks are used. These can easily be touched, and should also be replaced with waterproof enclosed types.
3. The railings referred to above are detachable, and are held in place by gravity and a tight fit. A more substantial method of fixing would be desirable, to prevent accidental removal of the railings.
4. These railings can be considered as extraneous metalwork, and if so, should be provided with an earth bonding conductor.
5. In the electrical switchgear cabinets within the operators box, there are bare terminals, that present a shock hazard, when the doors are open. Inspection Bodies should consider methods of ensuring that the terminals cannot be touched accidentally by adequate insulation and provision of lock to the cabinet doors.
6. In some cases, the earth leakage protection devices have a higher trip current rating than 30mA as recommended in the Code of Safe Practice. Inspection Bodies should consider whether such shock protection provided is adequate.

(continued)

Committee Members :- Dr Garry Fawcett (Chairman), Mr Richard Barnes, Mr Peter Steffens, Mr Doug Dadswell, Mr Peter Smith and representatives of LTC Ltd, Plant Safety Ltd, and Banwell & Associates Ltd

© March 1996

2A GROVE PARADE, BUXTON, DERBYSHIRE. SK17 6AJ

TEL: (01298) 22384 FAX: (01298) 70784

7. In some cases the main incoming supply cables have been found to have pulled loose from the connection point, outside the operators box, leaving bare live conductors and poor earth integrity. This area should be checked thoroughly during examinations.

As well as those problems previously identified there are some others as follows :-

8. Some of these devices are fitted with dual incoming RCDs. It should be noted that the Low Volt Release system required by paragraph 214 of "Fairgrounds and Amusement Parks - A Code of Safe Practice" only operates as a result of the tripping of one of these RCDs.

9. Instances of bare conductors have been found on the decorative lighting attached to the railings.

Interested parties should be aware that both of these last two problems occur on many types of ride.

PLEASE NOTE THIS REFERENCE IS NOW SUPERSEDED