

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Sub-Committee

TECHNICAL BULLETIN - MAY 1993

056. Eli Bridge Scrambler

We have recently received a copy of the manufacturer's Bulletin No. 8 relating to the Eli Bridge Scrambler (i.e. Twist). This concerns weld cracks at the bottom of the centre pole.

The problem may exist in all Serial Numbers and has been known to some NAFLIC members for about 12 years. The centre pole of the device passes through a base structure consisting of two parallel plates and is welded circumferentially to the under side of the bottom plate. Cracking occurs in this weld. We are also aware that cracks can occur in the welds between the centre pole and the vertical webs between the two plates.

If cracking is allowed to develop without repair or modification it progresses fully round the weld until the centre pole becomes free to tip over. Experience of the speed of crack propagation suggests that the appropriate period for inspection (including NDT) is annual. It is therefore this Committee's recommendation that, despite the difficulty of access in some cases, the area should be exposed for examination at least yearly. If crack indications are found then the Appointed Person will need to consider whether immediate repair or modification is necessary. Some of these devices have already been modified.

We remind members that this ride falls within the scope of Guidance Note PM49 from the Health and Safety Executive, dated September 1985, and entitled "Safe operation of passenger carrying amusement devices - the Cyclone Twist".