

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Sub-Committee

TECHNICAL BULLETIN - FEBRUARY 1995

108. Miami Trip Rides

We have had several items of correspondence referring to the Miami Trip rides manufactured by Keith Emmett & Sons Ltd and, in particular, to examination of the main platform support shafts. An earlier NAFLIC Technical Bulletin, no. 083, in April 1994 reported on an accident which resulted from a shaft failure. We have been asked to comment on the procedures etc. for shaft examination and NDT.

It is our understanding that there are a number of shaft designs, possibly 6, fitted to different Emmett Miamis. It is therefore crucial to obtain the manufacturer's written confirmation of which shaft type is fitted to the ride which is to be examined. The written examination and NDT procedures and frequency, (which may, in some cases, be more often than once per year) should also be obtained from the manufacturer for the correct model.

It is known that one or more of the shaft designs has possible fatigue weaknesses and the calculations and Design Review relating to each design should have established the likely fatigue lives. We have seen a copy of an examination and NDT procedure for one of these shaft types. It is therefore our view that it would be unwise to certificate one of these Miamis without having followed the advice in the previous paragraph.

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