

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Sub-Committee

TECHNICAL BULLETIN - JANUARY 1995

107. Log Flume Incidents

There appears to have been, in recent years, a history of facial and dental injuries on some Log Flume (and Waterchute) rides.

The problem may be looked at in two ways; either :-

- the deceleration forces caused when the log strikes the water in the trough at high speed are excessive, causing some passengers to be thrown against the front of the vehicle;
- or, passenger containment / restraint is unsatisfactory.

Where the problem occurs, attention to reduction of forces on passengers, or improvement of containment may both be beneficial. The rapid decelerations caused when a log strikes the water may possibly be reduced by changing log shape, mass distribution or water depth.

Logs do not normally incorporate restraint straps or bars. However, improvements to containment may possibly be gained by looking at the way in which passengers brace themselves against footrests, handrails etc. as well as by ensuring good padding at the front of the log.

If any changes are contemplated then proper investigation will be necessary, confirmed by independent Design Review.

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