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## HSE Information Note

### Safety at Twist/Sizzler Rides

This information note is aimed at controllers of Twist/Sizzler type amusement devices where failure of a restraint to be properly locked and adjusted could result in ejection of passengers, and at those responsible for the operation, maintenance, and inspection of these devices.

Ride controllers have duties to take reasonably practicable steps to ensure the safety of people on their rides. On Twist/Sizzler amusement devices HSE expects that the ride controller ensures that:

- there is an adequate provision of fencing or another suitable means to ensure that it is not possible for someone to inadvertently approach the ride whilst in motion;
- clear, unambiguous advice and instructions about safety on the ride is provided, including clearly visible height restriction boards that should be positioned at any of the open access points to the ride;
- passengers are in a fit condition to ride the device and are able to brace themselves sufficiently;
- passengers are of the correct height and body mass to fit correctly into the seat and restraint system, can brace themselves sufficiently and the seat restraint is fitted correctly and adjusted so that the passenger can be effectively contained by the restraint system;
- that at **each cycle**, and before running a ride, operators carry out physical checks to ensure all the restraints are positioned correctly and locked in position and passengers are properly secured;
- these physical checks are effectively integrated into the operational procedures for the amusement device, with effective training, information, instruction and supervision to ensure that they are completed at each ride cycle;
- the amusement device is observed during operation at all times, and that any riders who demonstrate any signs of distress, inappropriate and/or dangerous behaviour are identified so that the device can be quickly brought to a safe stop if necessary;
- the device is not operated at speeds (in either rotational direction) that exceed the threshold rpm identified in the design specification, design review or design risk

assessment. If this information is not available, it should be determined by a competent person to ensure that the restraint system for the device meets the relevant standards for the forces generated at the maximum operating rpm;

- if necessary, the amusement device should be provided with a speed limiter / interlock, or an rpm counter / indicator or alert to ensure that the threshold rpm (in either rotational direction) for the device cannot be exceeded;
- periodic functional checks, maintenance and inspection of the amusement device is carried out in accordance with manufacturer's instructions and the operational risk assessment. This should be recorded and only undertaken by a competent person and is in addition to the annual in-service inspection;
- reference should be made to the relevant technical bulletins held on the ADIPS webpage <https://adips.co.uk/technical-bulletins/>
- any safety critical modifications should be subject to a partial design review where appropriate;
- any replacement components are supplied by either the manufacturer or are designed and manufactured by a competent person to the relevant specification;
- any replacement components or other maintenance activities are carried out by competent person.

**8<sup>th</sup> October 2021**