

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Committee

TECHNICAL BULLETIN — JULY 2008

355. Vekoma SLC Coaster

A member of the committee, during an annual inspection of a Suspended Looping Coaster (SLC) manufactured by Vekoma, Holland; found several areas of porosity in the welds of the track structure.

The structure was manufactured in China and it appears that the defects were not identified during the original fabrication process.

The manufacturer was informed and immediately implemented weld repairs to the areas identified and have promised to investigate the reasons for the problems.

In addition, defects were identified in the welds on the main axle fabrication initially using magnetic particle inspection, further investigation using ultrasonic testing revealed internal defects in the welds.

The manufacturer witnessed the testing and implemented weld repairs to the affected areas. The welding was identified to have been undertaken by Vekoma's own welders in Europe.

It is important that all the welds on the main axle fabrication are subjected to NDT; however, care must be taken when applying ultrasonic testing to the welds on the top of the axle fabrication due to the fact that the construction consists of two overlapping plates sealed with fillet welds rather than the usual butt weld type construction.