

Introduction

The purpose of this document is to try to capture the potential hazards of the system being analyzed.

1. Documents of Reference

None

2. Method

Hazards on this list were determined by brainstorming methods.

Subsystem: Lift

HAZARD TITLE	DESCRIPTION	CAUSES
Rollback	Vehicle disengages from lift and rolls back into station	Broken chain
		Broken chain dog
		Sprocket shaft failure
Sprocket	Crushing injury	Person in equipment

Subsystem: Vehicle

HAZARD TITLE	DESCRIPTION	CAUSES
Collision	Collision of two vehicles	Brake Failure
		Control system failure
		Undetected vehicle
Restraint	Rider ejected from vehicle	Restraint failure
		Control system failure
G Forces	Excessive G Forces	High g forces on ride
Pinch Points	Points on vehicle where guest or operator may get pinched	Vehicle movement

Subsystem: Station

HAZARD TITLE	DESCRIPTION	CAUSES
Inadvertent motion	Motion of vehicle without operator input, especially during ingress/egress	Brake failure
		Operator error
		Control system failure
Slip/Trip	Persons falling in station	Slip/Trip hazards

Subsystem: Brakes

HAZARD TITLE	DESCRIPTION	CAUSES
High G stop	Excessive braking force	Brake setup
High Entry Speed	Speed excessively greater than design speed for brakes	Trim or stop failure of previous brakes

Subsystem: Track

HAZARD TITLE	DESCRIPTION	CAUSES
Derailment	Vehicle leaves track	Vehicle failure Track failure Transfer track open
Falling Objects	Objects fall onto guests/operators	Improper installation
Impact with person	Person in path of train	Unknown

Subsystem: Controls

HAZARD TITLE	DESCRIPTION	CAUSES
Electrocution	Electrocution of operator or guest	Stray electrical current