

Description of component, subsystem, or function	Symptom (what?)	Effect (so what)	Failure mode (why?)	Probability	Severity	Risk priority	Remedial action
Front Drive - Brake	track doesn't spin	sled won't move	outer shaft buckled	1	3	3	
	brakes fail	sled won't stop	drive wheels strip from shaft	1	4	4	
	sluggish operation	loss of power	bearings sieze	2	1	2	
Front Drive - Power	track doesn't spin	sled won't move	shaft break	2	2	4	
			gears/splines strip	2	2	4	
Chain/Axle System	track doesn't spin	track doesn't spin	sprocket stripped or broken	1	2	2	
			axle broken	1	2	2	
			bearings sieze	1	2	2	
			chain breaks	2	2	4	
	sluggish operation	sluggish operation	snow packs suspension	1	1	1	
Slide Rails	excessive noise and vibration	sluggish operation	slide rails broken	1	3	3	
Rear Axle	track doesn't spin	track doesn't spin	bearings sieze	2	2	4	
			drive wheels strip from shaft	1	2	2	
			drive shaft broken	1	2	2	

	Very Probable	Probable	Occasional	Remote	Improbable
Catastrophic	4	20	16	12	8
Critical	3	15	12	9	6
Marginal	2	10	8	6	4
Negligible	1	5	4	3	2

Severity of Effect

Catastrophic The failure causes substantial damage to the product itself or related items (including people), requiring repair.

Critical The failure causes significant damage to the product itself or related items, requiring repair.

Marginal The failure causes some damage to the product itself or related items, potentially requiring repair.

Negligible The failure causes no significant damage.

Probability of Failure

Very

Probable Every time

Probable Most times

Occasional Observed multiple times during the project.

Remote Might be possible during the project.

Improbable Maybe observed once during the project or predicted to happen after hand off.