



RATING GUIDELINES – SERVICE

SEVERITY RATING GUIDELINES: SERVICE

EFFECT	CRITERIA: SEVERITY OF EFFECT	RANKING
Hazardous without Warning	Very high severity ranking when a potential failure mode affects operation without warning	10
Hazardous with Warning	Very high severity ranking when a potential failure mode affects safe system operation with warning	9
Very High	System inoperable with destructive failure without compromising safety	8
High	System inoperable with equipment damage	7
Moderate	System inoperable with minor damage	6
Low	System inoperable with no damage	5
Very Low	System inoperable with significant degradation of performance	4
Minor	System inoperable with some degradation of performance	3
Very Minor	System inoperable with minimal interference	2
None	No Effect	1

OCCURRENCE RATING GUIDELINES: SERVICE

PROBABILITY OF FAILURE	POSSIBLE FAILURE RATES	RANKING
Very High	Failure is almost inevitable: < 1 in 2	10
Very High	Failure is almost inevitable: < 1 in 3	9
High	Repeated Failures: < 1 in 8	8
High	Repeated Failures: < 1 in 20	7
Moderate	Occasional Failures: < 1 in 80	6
Moderate	Occasional Failures: < 1 in 400	5
Moderate	Occasional Failures: < 1 in 2,000	4
Low	Relatively Few Failures: < 1 in 15,000	3
Low	Relatively Few Failures: < 1 in 150,000	2
Remote	Failure is Unlikely : < 1 in 15,00,000	1

DETECTION RATING GUIDELINES: SERVICE

DETECTABILITY	POSSIBLE FAILURE RATES	RANKING
Cannot Detect	Design Control cannot detect potential cause/mechanism and subsequent failure mode	10
Very Remote	Very Remote chance the design control will detect potential cause/mechanism and subsequent failure mode	9
Remote	Remote chance the design control will detect potential cause/mechanism and subsequent failure mode	8
Very Low	Very low chance the design control will detect potential cause/mechanism and subsequent failure mode	7
Low	Low chance the design control will detect potential cause/mechanism and subsequent failure mode	6
Moderate	Moderate chance the design control will detect potential cause/mechanism and subsequent failure mode	5
Moderately High	Moderately High chance the design control will detect potential cause/mechanism and subsequent failure mode	4
High	High chance the design control will detect potential cause/mechanism and subsequent failure mode	3
Very High	Very High chance the design control will detect potential cause/mechanism and subsequent failure mode	2
Will Detect	Design Control will detect potential cause or the mechanism and subsequent failure mode	1