In addition to this summary, this report includes the following forms:

Criticality Analysis (Standard)
Criticality Matrix (MIL-STD Quantitative)
Criticality Ranks

Xfmea Report Sample – Quantitative Criticality

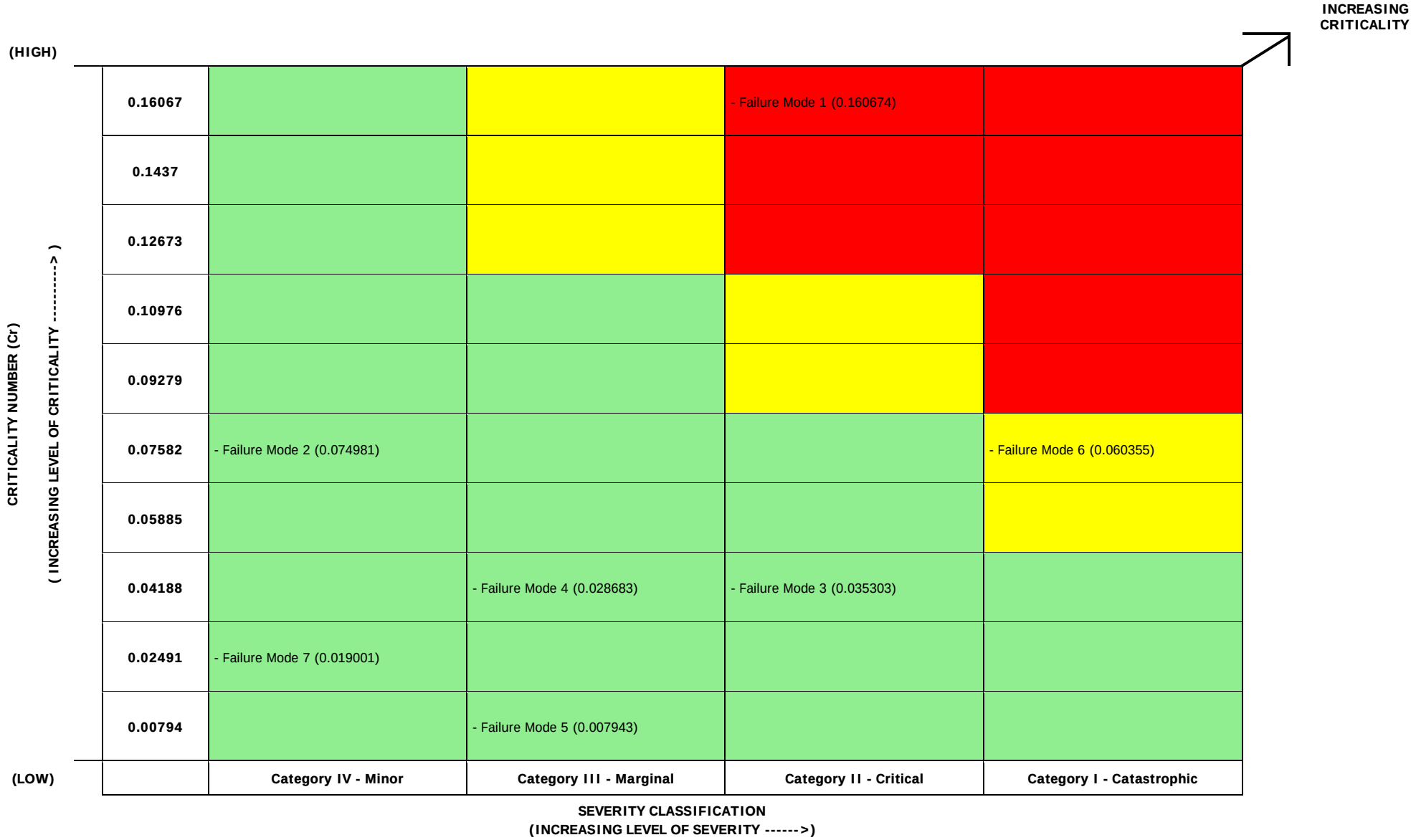
This report was generated with ReliaSoft's Xfmea software in Microsoft Word. Similar reports can also be generated in Microsoft Excel. You can easily replace the Xfmea logo graphic with your own company logo. Within Word and Excel, reports can be edited/annotated, if necessary, and generated in PDF and/or HTML format for easy distribution.

This report includes:

- Quantitative Criticality Analysis spreadsheet in a modified reporting format based on MIL-STD-1629A.
- Quantitative Criticality Matrix chart, as specified in MIL-STD-1629A.
- Criticality Ranks spreadsheet, which ranks items by Item Criticality then failure modes by Mode Criticality.

Reports are based on fictional information that is not intended to be realistic.

ITEMS	OPERATING TIME	EXPECTED FAILURES	FUNCTIONS	FAILURES AND CAUSES	MODE RATIO	PROB OF LOSS	MODE CRITICALITY	ITEM CRITICALITY
1 - Component A	1000 (Hr)	0.714108	Item functions as intended.	Failure Mode 1 - Cause 1 for Mode 1 - Cause 2 for Mode 1 - Cause 3 for Mode 1	0.3	0.75	0.160674	0.235655
				Failure Mode 2 - Cause 1 for Mode 2 - Cause 2 for Mode 2	0.7	0.15	0.074981	
2 - Component B	1000 (Hr)	0.176513	Item functions as intended.	Failure Mode 3 - Cause 1 for Mode 3 - Cause 2 for Mode 3 - Cause 3 for Mode 3	0.25	0.8	0.035303	0.071929
				Failure Mode 4 - Cause 1 for Mode 4	0.65	0.25	0.028683	
				Failure Mode 5 - Cause 1 for Mode 5 - Cause 2 for Mode 5	0.1	0.45	0.007943	
3 - Component C	1000 (Hr)	0.447072	Item functions as intended.	Failure Mode 6 - Cause 1 for Mode 6 - Cause 2 for Mode 6	0.15	0.9	0.060355	0.079356
				Failure Mode 7 - Cause 1 for Mode 7 - Cause 2 for Mode 7	0.85	0.05	0.019001	


INCREASING CRITICALITY
(HIGH)
CRITICALITY NUMBER (Cr)
(INCREASING LEVEL OF CRITICALITY ---------- >)
0.16067
0.1437
0.12673
0.10976
0.09279
0.07582
0.05885
0.04188
0.02491
0.00794
- Failure Mode 1 (0.160674)
- Failure Mode 2 (0.074981)
- Failure Mode 6 (0.060355)
- Failure Mode 4 (0.028683)
- Failure Mode 3 (0.035303)
- Failure Mode 7 (0.019001)
- Failure Mode 5 (0.007943)
(LOW)
Category IV - Minor
Category III - Marginal
Category II - Critical
Category I - Catastrophic
SEVERITY CLASSIFICATION
(INCREASING LEVEL OF SEVERITY ------>)

CRITICALITY RANKS

NAME	ITEM CRITICALITY	FAILURES AND CAUSES	MODE CRITICALITY
1 - Component A	0.235655	Failure Mode 1 - Cause 1 for Mode 1 - Cause 2 for Mode 1 - Cause 3 for Mode 1	0.160674
1 - Component A	0.235655	Failure Mode 2 - Cause 1 for Mode 2 - Cause 2 for Mode 2	0.074981
3 - Component C	0.079356	Failure Mode 6 - Cause 1 for Mode 6 - Cause 2 for Mode 6	0.060355
3 - Component C	0.079356	Failure Mode 7 - Cause 1 for Mode 7 - Cause 2 for Mode 7	0.019001
2 - Component B	0.071929	Failure Mode 3 - Cause 1 for Mode 3 - Cause 2 for Mode 3 - Cause 3 for Mode 3	0.035303
2 - Component B	0.071929	Failure Mode 4 - Cause 1 for Mode 4	0.028683
2 - Component B	0.071929	Failure Mode 5 - Cause 1 for Mode 5 - Cause 2 for Mode 5	0.007943

In addition to this summary, this report includes the following forms:

Criticality Analysis (MIL-STD Quantitative)
Criticality Matrix (MIL-STD Quantitative)
Criticality Ranks

Xfmea Report Sample – Quantitative Criticality (2)

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CRITICALITY ANALYSIS
(Quantitative Analysis - 3.2)

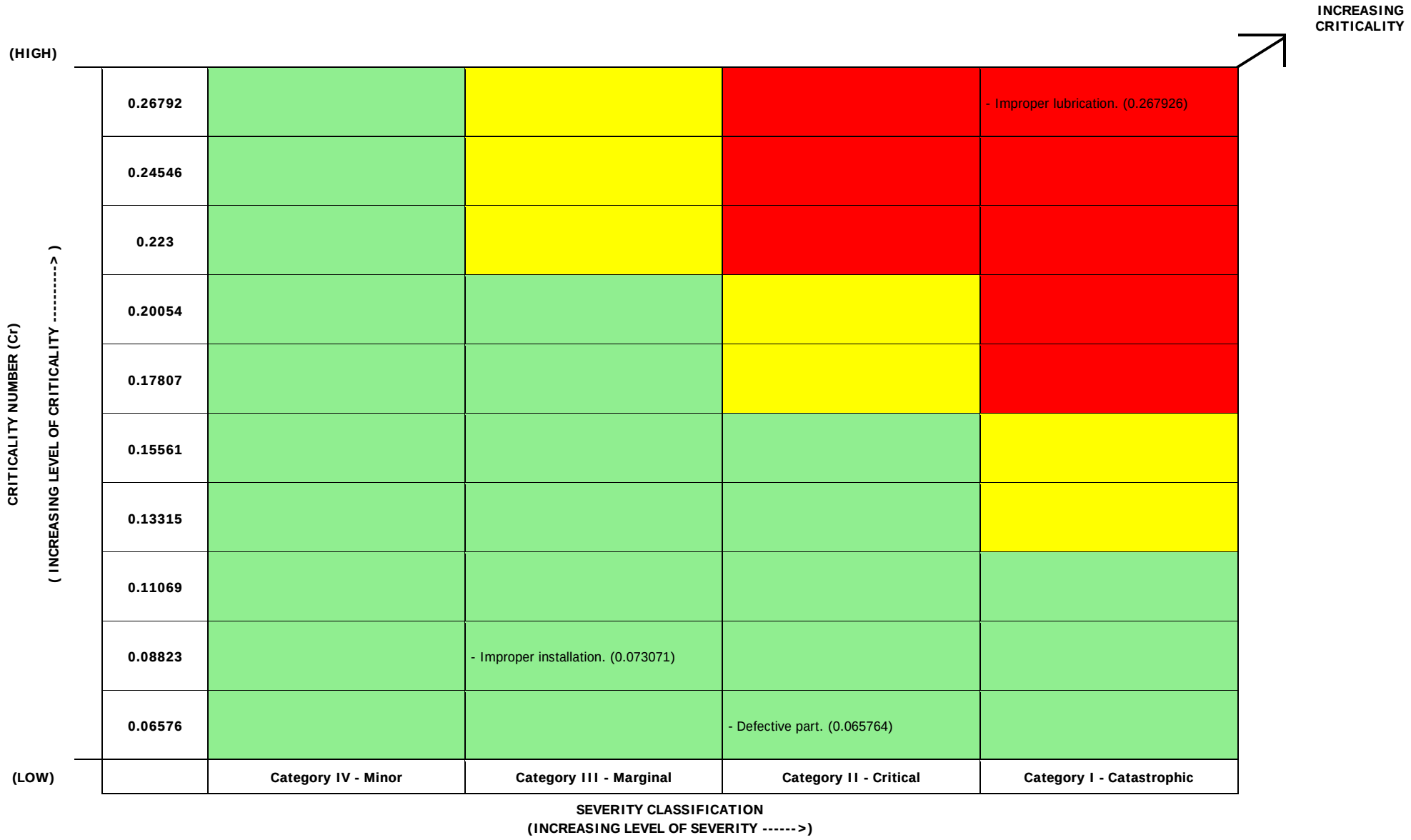
FAILURE MODE AND EFFECTS ANALYSIS

SYSTEM Widget
INDENTURE LEVEL Widget (Level 1)
REFERENCE DRAWING RS 12345
MISSION Description of mission.

DATE: 7/29/2015

COMPILED BY ReliaSoft Corporation
APPROVED BY ReliaSoft Corporation

IDENTIFICATION NUMBER	ITEM/FUNCTIONAL IDENTIFICATION (NOMENCLATURE)	FUNCTION	FAILURE MODES AND CAUSES	MISSION PHASE/ OPERATIONAL MODE	UNRELIABILITY DATA SOURCE	FAILURE EFFECT PROBABILITY	FAILURE MODE RATIO	EXPECTED FAILURES	OPERATING TIME	FAILURE MODE CRIT	ITEM CRIT	REMARKS
1	Widget	Performs an unnamed mechanical function.	Defective part. - Quality Assurance controls for manufacturing do not function adequately.	All phases.	In-house testing and analysis of field data. [WB2 (2.5, 1000)]	0.9	0.15	0.487139	750 (Hr)	0.065764	0.406761	This is an imaginary product used for demonstration purposes.
			Improper installation. - Quality Assurance controls for assembly do not function adequately. - Repair personnel did not install new component properly.	All phases.		0.5	0.3			0.073071		
			Improper lubrication. - Maintenance personnel did not provide sufficient lubrication. - Quality Assurance controls for manufacturing do not function adequately. - A leak caused the accelerated depletion of lubricating material.	All phases.		1	0.55			0.267926		


INCREASING CRITICALITY
(HIGH)
CRITICALITY NUMBER (Cr)
(INCREASING LEVEL OF CRITICALITY ---------- >)
0.26792
0.24546
0.223
0.20054
0.17807
0.15561
0.13315
0.11069
0.08823
0.06576
- Improper lubrication. (0.267926)
- Improper installation. (0.073071)
- Defective part. (0.065764)
(LOW)
Category IV - Minor
Category III - Marginal
Category II - Critical
Category I - Catastrophic
SEVERITY CLASSIFICATION
(INCREASING LEVEL OF SEVERITY ------>)

NAME	ITEM CRITICALITY	FAILURES AND CAUSES	MODE CRITICALITY
1 - Widget	0.406761	Improper lubrication. - Maintenance personnel did not provide sufficient lubrication. - Quality Assurance controls for manufacturing do not function adequately. - A leak caused the accelerated depletion of lubricating material.	0.267926
1 - Widget	0.406761	Improper installation. - Quality Assurance controls for assembly do not function adequately. - Repair personnel did not install new component properly.	0.073071
1 - Widget	0.406761	Defective part. - Quality Assurance controls for manufacturing do not function adequately.	0.065764