RATING CRITERIA AND CLASSIFICATIONS

RPN Calculation Method: Cause RPN = Severity x Occurrence x Detection **Failure RPN =** Sum of Cause RPNs **Item RPN =** Sum of Mode RPNS plus Sub-Item RPNs

Severity Rating Scale

#	Description	Criteria
1	None	No discernible effect.
2	Very Minor	Fit and finish/Squeak and rattle item does not conform. Defect noticed by discriminating customers (less than 25%).
3	Minor	Fit and finish/Squeak and rattle item does not conform. Defect noticed by 50% of customers.
4	Very Low	Fit and finish/Squeak and rattle item does not conform. Defect noticed by most customers (greater than 75%).
5	Low	Vehicle/Item operable but Comfort/Convenience item(s) inoperable. Customer somewhat dissatisfied.
6	Moderate	Vehicle/Item operable but Comfort/Convenience item(s) inoperable. Customer dissatisfied.
7	High	Vehicle/Item operable but at a reduced level of performance. Customer very dissatisfied.
8	Very High	Vehicle/Item inoperable (loss of primary function).
9	Hazardous with warning	Very high severity ranking when a potential failure mode affects safe vehicle operation and/or involves noncompliance with government regulation with warning.
10	Hazardous without warning	Very high severity ranking when a potential failure mode affects safe vehicle operation and/or involves noncompliance with government regulation without warning.

Occurrence Rating Scale

#	Description	Criteria
1	Remote: Failure is unlikely	<= 0.01 per thousand vehicles/items
2	Low: Relatively few failures	0.1 per thousand vehicles/items
3	Low: Relatively few failures	0.5 per thousand vehicles/items
4	Moderate: Occasional failures	1 per thousand vehicles/items
5	Moderate: Occasional failures	2 per thousand vehicles/items
6	Moderate: Occasional failures	5 per thousand vehicles/items
7	High: Frequent failures	10 per thousand vehicles/items
8	High: Frequent failures	20 per thousand vehicles/items
9	Very High: Persistent failures	50 per thousand vehicles/items
10	Very High: Persistent failures	=> 100 per thousand vehicles/items

Detection Rating Scale

#	Description	Criteria
1	Almost Certain	Design Control will almost certainly detect a potential cause/mechanism and subsequent failure mode.
2	Very High	Very High chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
3	High	High chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
4	Moderately High	Moderately High chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
5	Moderate	Moderate chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
6	Low	Low chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
7	Very Low	Very Low chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
8	Remote	Remote chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
9	Very Remote	Very Remote chance the Design Control will detect a potential cause/mechanism and subsequent failure mode.
10	Absolute Uncertainty	Design Control will not and/or cannot detect a potential cause/mechanism and subsequent failure mode; or there is no Design Control.

Classification Options

Abbreviation	Description
C	Critical
KI	Key Intermediate
KLd	Key Leading
KLg	Key Lagging
S	Significant