

# Supplier Quality Assurance Manual



GSS-F-051.7 4/29/2016

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Douglas Dynamics, Inc. - Commercial Snow and Ice Division is the North American leader in the design, manufacture and sale of snow and ice control equipment. The company sells its products under the WESTERN®, FISHER® and SnowEx®, SweepEx®, and TurfEx®, brands which are among the most established and recognized in the industry. Douglas Dynamics has the industry's most extensive global distributor network, which primarily consists of truck equipment distributors who purchase directly from the Douglas Dynamics, Inc. and are located throughout the Snow Belt regions of the world.

Although each of our brands maintain its own distinct product characteristics, "best practices" developed at our facilities around the globe are exchanged and implemented company-wide.

The entire Douglas Dynamics (DD) organization is passionate about providing our dealers and their customers with the highest possible levels of product quality, customer service and product support.

Our customers depend on DD for durable, dependable, and reliable products supported by outstanding service and support after the sale. Our suppliers must be able to demonstrate the ongoing use a living quality system that shows evidence of continuous improvement. The Global Sourcing and Supply (GSS) team at DD expects our suppliers to perform flawlessly in meeting our needs for defect free component parts, assemblies and accurate documentation that support our lean environment. In that way, the GSS team at DD can work with an elite cadre of suppliers.

# **Supplier Quality Assurance Manual**

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#### 1.0 **Definition**

Douglas Dynamics, Inc. Supplier Quality Assurance (SQA) program provides a path for Douglas Dynamics and it's suppliers to follow during product development to end of life, ensuring Douglas Dynamics and it's customers will consistently receive products and services that meet or exceed all expectations for dimensional, aesthetic, and performance characteristics.

#### 2.0 <u>Scope</u>

This SQA program applies to suppliers of production assemblies, parts, materials, and services, including complete products marketed, or distributed by Douglas Dynamics Corporation or in the name of Douglas Dynamics, INC. at all Douglas Dynamics Divisions and sites.

#### 3.0 **Objective**

The primary objective of this SQA program is to define how to consistently achieve all design requirements on supplied products or services and to continuously improve quality by reducing variation and by "centering" processes.

#### 4.0 <u>Supplier Assessment and Selection</u>

DD has a formal supplier selection and rating program with metrics for each supplier showing Quality, Delivery, Lead Time, and Margin Improvement. In choosing suppliers, preference will be shown for those who are registered to ISO9000:2008, QS9000, or TS16949 standards. Registration may become a requirement in the future.

# 5.0 <u>Advanced Product Quality Planning (APQP) and Production Part</u> <u>Approval (PPAP)</u>

Newly designed components and existing items being redesigned will be categorized as either Custom or Commodity items. Suppliers quoting these items may be required to participate in APQP and PPAP activities as set out in this program or approved by the DD Supplier Quality Personnel. These requirements will be further communicated to the supplier through the APQP/Producibility Meeting and the PPAP warrant (example in Appendix L) that the DD will create and provide. DD adheres to the principle that PPAP qualification documentation is part of the cost of doing business in providing world class quality.

#### **5.1 APQP/Producibility Meetings**

• These meetings may be conducted per the Producibility Review Procedures for Purchased Parts (See Appendix D).

- The objective of these meetings is to review the specifications and various requirements for a new purchased part.
- During the APQP/Producibility meetings, the minimum PPAP

requirements will remain consistent with those defined in this SQA Manual.

- 5.2 <u>Custom Component</u> requirements prior to production approval
  - Early Supplier Involvement (ESI) meeting held
  - Producibility meeting held
  - PFMEA and Control Plan
  - Material Certifications if applicable
  - Level 2 PPAP warrant with prints, samples, and dimensional layout
  - (use Supplier Process Capability Form) For specific electrical components, DD will require Gerber Files, substitute or alternate part specifications, tooling and injection mold prints, and software source code.
  - Gage R & R
  - Initial run data showing process capability of <u>></u> 1.33 CpK on selected dimensions.
  - Evidence of a calibration program for all measurement instruments used to validate setup or confirm product conformity to specifications
  - DD will require documentation indicating compliance with the Restriction of Hazardous Substances Directive 2015/863/EU (RoHS)

## 5.3 Commodity Components

 Have no APQP but require a Level 1 PPAP which requires an annotated print, sample parts, full dimensional layout, and Material Certifications. This is to ensure that both DD and the supplier understand the minimum requirements of Form, Fit and Function. DD will require documentation indicating compliance with the Restriction of Hazardous Substances Directive 2015/863/EU (RoHS)

## 5.4 Customer Notification

Will be required for design or process changes as indicated below. This notification <u>must</u> be submitted to the DD using the **Supplier Request for Change Approval** form, GSS-F-051 prior to making any material or process changes, see Appendix K. DD will decide if a PPAP submission is required and issue a warrant if needed.

- Production from new or modified tools (with the exception of perishable tools), dies, molds, patterns, etc. including additional or replacement tooling
- Production following a major refurbishment or rearrangement of existing tooling or equipment having a significant impact on process flow.

- Production from tooling and equipment transferred to a different plant location or from an additional plant location
- Use of process or material other than what was used during PPAP.
- Product produced after tooling has been inactive for twelve months or more.
- **Change of a subcontractor** for parts, non-equivalent materials, or services (e.g.: plating, heat treating)
- Correction of a discrepancy on a previously submitted part.

# 6.0 <u>Supplier Corrective Action</u>

- **6.1** <u>Supplier Corrective Action</u> Response (SCAR's) will be issued on non conforming products, inaccurate documentation, and ongoing delivery performance issues.
  - Containment responses are required within 48 hours of receipt
  - Root cause corrective action is required to close
  - SCAR's are recorded as part of Supplier Performance Metrics

# 7.0 Warranty and Traceability

- 7.1 <u>Supplied Product Warranties</u> shall match DD's 2 year product warranty at a minimum.
  - DD field warranty starts at installation
  - Supplier must be able to provide traceability/lot code/date of manufacture documentation that correlates to the DD purchase order

Appendix A – PPAP Flowchart (GSS-W-008)

Needs Updating

Appendix B – Component Classification Matrix (GSS-F-049)

COMP	ONENT CLASSIFICAT	ION MATRIX
Classification	Custom Component	Commodity Component
Symbol	None	None
Definition	Is a product or a product characteristic for which reasonably anticipated manufacturing variation is likely to significantly affect customer satisfaction (due to its fit, function, appearance etc.) and/or significantly impact manufacturing efficiency or ergonomics.	Is a product that is not design specific to DD and is readily available to the general public.
APQP Required	Yes Early Supplier Involvement (Recommended) Producibility Review Process Flow Chart PFMEA	No
Capability required	Yes 1.33 Cpk Initial	No
PPAP Required	Yes	Yes
	Level 2 Warrant, print, sample parts, capability studies on key dimensions, Gage R&R, process flow chart, DD approved control plan, PFMEA, dimensional layout, Certifications from original material supplier certs.	Level 1 Annotated print, sample parts, full dimensional layout, Certifications from original material supplier certs.
DD Quality requirements	Review and approval of PPAP package at DD. May perform Incoming inspection per DD.	Suppleir ISIR and Incoming inspection
Ongoing monitoring required	Yes Suppliers internal control plan requirements	Not required Suppliers internal control plan requirements

Appendix C – Glossary of Terms

- 1. <u>AIAG Automotive Industry Action Group</u> Ford, GM, and Chrysler cooperative team that developed QS9000 Quality System.
- 2. <u>APOP Advanced Product Quality Planning</u> This process will insure that all elements of risk will be addressed early in the design process. This process will require the supplier to produce the following documents: Process Flow Chart, Process Failure Modes and Effects Analysis (PFMEA), and Control Plan. Critical Dimensions may be identified with input required from DD.
- **3.** <u>**Calibration System</u></u> A required system for DD suppliers. This program requires that all inspection, measuring, or test equipment used to verify product or process conformance are uniquely identified with a code or serial number and are calibrated on regular intervals against traceable standards.</u>**
- 4. <u>Capability (Process)</u> The total range of inherent variation present in a stable process.
- 5. <u>Capability Indices Cp Cpk</u> Indices used to describe a stable process. Cp is the index describing how tightly the measured points are grouped together. Cpk describes the relationship between where the measurements are relative to the specification. The Cpk requirements at DD for initial capability is 1.33 for selected dimensions. The calculations to determine Cp and Cpk can be provided by DD.
- 6. <u>Commodity Component</u> A commodity component is a component supplied to DD for production usage for which DD does not have design responsibility or control of the design. Examples of these types of components are commercial catalog items and hardware. These types of components require a DD level 1 PPAP submission.
- 7. <u>Control Plans</u> –A written summary of the systems used in evaluating and minimizing process and product variation. All custom components supplied to DD must be produced in accordance with an approved Control Plan preferably in the AIAG format. The Control Plan should be considered a living document requiring updates throughout the life of the product. The AIAG Control Plan format is available from DD.
- 8. <u>Critical Characteristic</u> Is a characteristic for which reasonably anticipated variation is likely to significantly affect customer satisfaction with a product such as its fit, form, and function, or appearance or the ability to process or build the product.
- 9. <u>Custom Component</u> A component for which DD controls the design characteristics where reasonably anticipated variation is likely and does significantly affect a product's fit, form, or function. These components require a DD Level 2 PPAP prior to production. After initial PPAP approval, any change must be requested by submitting the Supplier Request for Change Approval form, GSS-F-051 prior to making any material or process changes,
- 10. <u>Dimensional Layout Inspection</u> Also known as an ISIR or FAIR, a layout inspection is a 100 % inspection of all part dimensions on the component print where the measured dimensions are recorded and compared against specifications. A minimum of three parts are required to be measured and recorded on the Supplier Process Capability Form GSS-F-036 or an AIAG equivalent version.

- 11. <u>Early Supplier Involvement</u> a meeting where input is obtained from a supplier and considered during the prototype stage of the project.
- 12. <u>PFMEA Process Failure Mode and Effects Analysis</u> A PFMEA is a method for identifying and evaluating the potential failures of a process and the effects of that failure and subsequent actions that could be taken to eliminate or reduce the chance that the failure would occur. These actions for reducing risk should be addressed prior to production and subsequently on the product control plan. The PFMEA should be considered a living document requiring updates throughout the life of the product. The format for the PFMEA must be in the AIAG format and available if needed from DD.
- **13.** <u>**Gage Resolution**</u> The smallest change that a measurement system can detect and reliably indicate for a given measured dimension/characteristic. The gage must have a resolution at least 10 times greater than the tolerance of the dimension.
- 14. <u>GD&T Geometric Dimensioning and Tolerancing</u> a system for defining and communicating using symbolic language on engineering drawings and solid models that explicitly describes nominal geometry and its allowable variation
- 15. <u>GR & R Gage Repeatability and Reproducibility</u> A structured approach to evaluating measurement systems with regard to accuracy of the measurement system itself vs. what is being measured. The details behind Gage R&R calculations can be found in the AIAG Measurement Systems Analysis (MSA) manual and a spreadsheet to calculate error is available from DD. For variable data, DD requires a gage error of less then 15 % for gages measuring selected dimensions. Attribute gage R&R studies must use generally accepted MSA methods.
- 16. <u>Material Test Results</u> Documented evidence that the results of raw material testing meets the requirements specified on the design record. The format for this form is available from DD.
- 17. <u>Performance Test Results</u> Documented evidence that the results of performance testing meets the requirements specified on the design record. The format for this form is available from DD.
- **18.** <u>**Perishable Tools**</u> are drill bits, cutters, inserts, etc. used to produce a product and which are consumed in the process.
- 19. <u>PPAP Production Part Approval Process</u>- The purpose of PPAP is to determine if all DD engineering design record and specification requirements are properly understood by the supplier and that the process has the potential to produce product consistently meeting these requirements during an actual production run. With the exception of the commodity components, all new or modified component parts require a PPAP submission. PPAP requirements are dependent on the component classification and are detailed on the *PPAP warrant* given to the supplier by DD with the release of a new program. When all required elements of the PPAP package meet the specified requirements, this package is to be submitted to the assigned DD SDS. Elements that do not meet targets or specifications require notification and approval by the assigned DD SDS.
  - <u>Level 1-</u> Requires warrant, samples, ISIR, annotated DD print (include material certs)

• <u>Level 2-</u> Requires warrant, samples, ISIR, annotated DD print, capability studies on key identified dimensions, GR & R on key dimensions, DD approved control plan, PFMEA,

full dimensional layout, Gerber files, Software source code, substituted or alternate components specifications. Material Certs. Any changes to the part or process or material or material source change after PPAP approval <u>must</u> be submitted to DD using the Supplier Request for Change Approval form, GSS-F-051, prior to making any material or process changes,

- <u>PPAP Sample Labels must be used to identify parts submission (See appendix –M)</u>
- **20.** <u>**Process Flow Diagram**</u> Graphically depicts the flow of materials through the process, including rework or repair operations.
- 21. <u>Producibility Reviews</u> a formalized process in which a cross-function team of representatives from both DD and the respective supplier, conduct a pro-active early-launch meeting to review part(s) requirements that will ensure the production process will produce a part consistently meeting the design intent.
- 22. <u>Production Materials</u> Material which has been issued a production part number produced from production tools, shipped to DD.
- **23.** <u>**Production Pilot Run**</u> This is the manufacture of a lot consisting of a minimum of 30 consecutive pieces or other quantity as agreed to with DD, and from a minimum of 1 hours worth of production from the production environment.
- 24. <u>PPAP Warrant</u> This is a standard document required for all newly tooled or revised products in which the supplier confirms that inspection and tests on production parts show conformance to DD requirements. This document is sent to the supplier with the DD tooling PO or launch of the program. Suppliers may use the AIAG standard format.
- **25.** <u>**Quality Manual**</u> The supplier's document that describes the elements of the quality system used to assure customer requirements, needs, and expectations are met.
- 26. <u>Quality Records</u> Quality records are the documented evidence that the supplier's processes were executed according to the quality system procedures as detailed in the Control Plan (e.g. inspection results, internal audit results, calibration data).
- 27. <u>Risk Priority numbers (RPN)</u> The cumulative effect (sum) arrived at in a calculation that involves assigning values that represent the impact to a customer of a potential non-conformance. In this calculation, the severity of the non-conformance relative to customer expectations is given a value as is the opportunity or frequency for a non-conformance to occur, and the ability to detect that non-conformance. A typical formula assigns the highest value of 10 to the most serious situations (Severity X Opportunity X Detection). Each number is multiplied by the successor; i.e. – a very severe problem would be 10 (X) opportunity to occur is low 2 = 20, (X) multiplied by an item easy to see with a discovery number of 2 --- for a total of 40 points.
- 28. <u>**RoHS**</u> Restriction of Hazardous Substances Directive

**29.** <u>**PPAP Sample Label**</u> – To assure PPAP samples get to the correct destination, a PPAP Sample Parts label must be attached to the same box that the shipping packing slip is attached too. This label must be "Yellow" in color (prefer fluorescent yellow) and should be approximately 3" x 5 " in size. The information must be as shown in the example Appendix –M-

Appendix D – Producibility Form

See GSS-F-048

#### Appendix E – PFMEA Form (GSS-F-053)

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Location:							Bus	sine	ss Unit Lead:							
Business Unit:							Pre	pare	ed By:							
Business Unit Process							FΜ	EA [	Date (Original):							
Business Unit Supervis	or:						FΜ	EA [	Date (Revised):							
			_					_							_	_
Process Description / Process Purpose	Potential Failure Mode	Potential Effects of Failure	Severity	Potential Causes of Failure	Occurrence	Current Controls	Detection	RPN	Recommended Action	Who is Responsible	Completion Date	Actions Taken	Severity	Occurrence	Detection	RPN
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# **Process Failure Mode and Effects Analysis (PFMEA)**

 Criteria:

 For Each Potential Failure Mode, Rank Each Factor (Severity, Occurance, Detection) on a scale from 1 to 10

 Severity
 10 = Very Severe
 1 = Minimal Severity

 Occurrence
 10 = Occurs Frequently
 1 = Occurs Infrequently

 Detection
 10 = Difficult to Detect
 1 = Easily Detected

NOTE: Safety Related Failure Modes are to be Ranked in the 8 to 10 Range

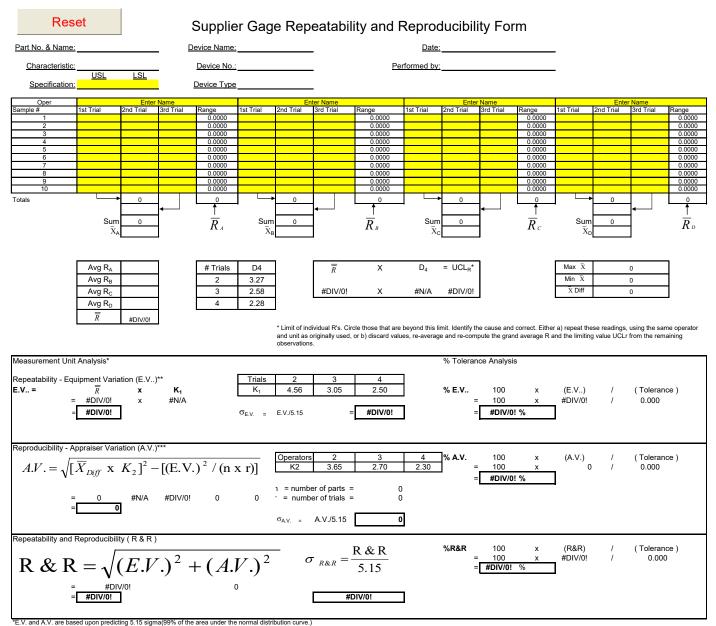
Risk Priority Number (RPN): After Ranking Calculate the RPN: RPN = (Severity) x ( Occurrence) x (Detection)

# Appendix F – Control Plan Form (GSS-F-050)

	Prototype	Pre-Launch		Production			Key Co	ntact/Pho	ne		Date (Orig.)		Date (rev.)			
	lan Number:	rel			Core Team							Customer Engineering Approval/Date (if req'd)				
Part Name/Description						Supplier/Pla	nt Approv	al/Date		Customer Qu	ality Approva	l/Date (if req'd)				
Supplier/F	Plant	Sup	plier C	ode			Other Appro	val/Date (	f req'd)		Other Approv	al/Date (if req	'd)			
			r								Methods	s				
Part/	Process Name/	Machine,			Character	istics		Special	Product/ Process	Evaluation	San	nple				
Process Number	Operation Description	Device, Jig, Tools for Mfg.	No.	Product	Process	Potential Failure	Results of Failure	Char. Class.	Specification/ Tolerance	Measurement Technique	Size	Freq.	Control Method	Reaction Plan		

Revision Date: 6/6/11

#### Appendix G – Gage R&R Form (GSS-F-057)



\*\*\* The K1 factors are only appropriate if (#operators) x (#samples) is greater than 15.1 fnot, refer to the table on the in the index of the MSA book.
\*\*\* If a negative value is calculated under the square root sign, or if there is only one operator then A.V. = 0.

Document # PS.FM.SM.11000 Revision Date: 1/6/04

# Appendix H – Layout and Process Capability Form (GSS-F-036)

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	Date	Inspected				Pa	art Number							Tool ID			
	Ins	spected By					rt Revision						N	Achine ID			
		lier Name:					Part Name						Cavity/Ho	le Number			
	Mfg	J. Location:				l											
		ENTER						0		10	44	10	40	44	45	10	47
PRINT DIM # NOM.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
UPPER TOL.																	
LOW TOL.																	
USL	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
LSL	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Measure Method																	
SAMPLE 1 SAMPLE 2																	
SAMPLE 3																	
SAMPLE 4																	
SAMPLE 5																	
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3SIGMA																	
HIGH																	
LOW																	
RANGE																	
CPK CP																	
Meet 1.33 Cpk?																	
Var. from nomin	1																
High Out By Low Out By																	
Low Out By Within																	
Tolerance?																	
Toll for 1.0 CPK																	
Toll for 1.33 CPK																	
Comments:	J																

# Appendix I – Material Results Form (GSS-F-055)

Douglas Dynamics, LLC Production Part Approval - Material Test Results										
Supplier	Part Number									
Name of Laboratory	Part N	ame								
Type of Test Material Spec. No./Date/Specification		Supplier Test Results	ОК	Not OK						
				_						

# Douglas Dynamics,LLC

	Production Part Approval - Performance Test Results										
Supplier		Part Nu									
Name of Lab	boratory	Part Na	ame								
Ref. No.	Requirements	Test Freq.	Qty. Tested	Supplier Test Results and Test Conditions	ок	Not OK					
						<u> </u>					
						+					

**Appendix K – Supplier Request for Change Approval Form (GSS-F-058)** 



SUPPLIER TO COMPLETE									
SUPPLIER NAME AND ADD	RESS								
			ONENTE						
DD AND/OR SUPPLIER PAR	I NAME AND PART NUMBE	ER OF ASSEMBLY AND IT COMP	ONENIS						
DESCRIPTION OF	□ DESIGN	□ MATERIAL	□ PROCESSING						
CHANGE:									
EFFECT OF CHANGE:									
EFFECT OF CHANGE:									
TIME REQUIRED TO IMPLE	MENT CHANGE AFTER APP	PROVAL							
INTERCHANGEABILE	$\square$ YES	□ NO (design engineer	IF NO, HOW?						
WITH EXISTING PART		approval needed)	IF NO, HOW?						
WITH EXISTING LART		approvar needed)							
SHIPPING SCHEDULE	□ NO	□ YES (supply manager	IF YES, HOW?						
AFFECTED?		approval needed)							
TOOLING OR FACILITIES									
CHANGE REQUIRED?	□ NO	$\Box$ YES	IF YES, EXPLAIN						
CHANGE REQUIRED?									
PIECE COST AFFECTED?		□ YES (supply manager	IF YES, EXPLAIN						
PIECE COST AFFECTED?		approval needed)	IF TES, EAPLAIN						
		approvar needed)							
ADVANCED SUPPLIE	<b>P DEVELOPMENT E</b>	NGINEER TO COMPLETE	<u>م</u>						
$\square$ APPROVED*	D PPAP WARRANT								
	REQUIRED								
BY SIGNATURE:	REQUIRED	DATE:							
REASON FOR REJECTION O	R ADDITIONAL ACTION RE								
READOINTORRESECTION									
REVIEWED BY:									
PRODUCT DESIGN		DATE:							
ENGINEER (As required):									
SUPPLY MANAGER (As		DATE:							
required):									
		s advisory in nature and in no man							
		designated in the applicable enginee							
inherent in the samples as ori	ginally tested and approved, a	re maintained. Supplier accepts fu	Ill responsibility for the changes						

or types of changes listed above; and should such changes result in less satisfactory performance than experienced with the originally approved item, Supplier will fully reimburse DD for all expenses incurred to correct the deficiency.

EXIT	Supplier C	orrective Action	Request	eMail SCAR	Preview
Date:				SCAR#	<b>t:</b> - '
Supplier Name:			From:		
Address:					
Attention:					
Phone:					
Purchase Order #:				Contact:	
				Phone:	
Part #:	Part or Material	Description:	Revisio	n: Qty Rec'd:	Qty Defective:
Description of Proble	 em				
Description of Proble	em				
Description of Proble	em				
Description of Proble	em				
Description of Proble	 em				
Disposition:	for evaluation	Sorted at our location		rts	
Disposition: Returned to you Returned to you	for evaluation for rework	Scrapped at our locati		rts	
Disposition:	for evaluation for rework			rts	
Disposition: Returned to you Returned to you Reworked at you	for evaluation for rework ır expense	Scrapped at our locati			Authorization #:

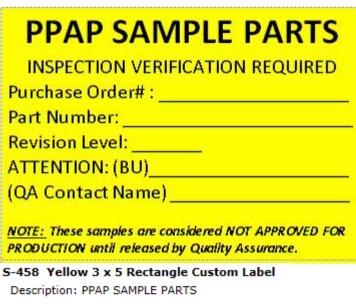
# Appendix L - Supplier Corrective Action Form (Data Base Form)

#### **SUPPLIER TO COMPLETE THE FOLLOWING:**

(If using your own CAR form, please attach to this SCAR form when submitting.)

Root Cause of Discrepancy:	
Long Torm Provention Plan	
Long Term Prevention Plan:	
25	GSS-F-051.7

**Appendix M – PPAP Sample Parts Label (example)** 



Paper Color: Yellow Ink Color(s): Black