Production Part Approval Process

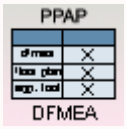
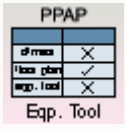
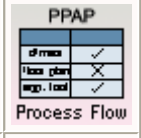
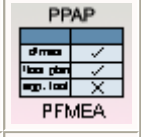
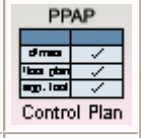
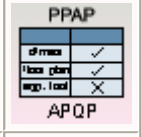
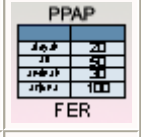
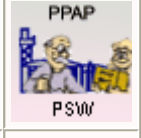
Sally Rodgers
Acme
2007-Nov-16 : 11:19:18

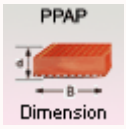
Table of Contents

Project Introduction

Project Details	
Project Name	PPAP
Description	Production Part Approval Process
Objective	
Abstract	
Project Leader	Sally Rodgers
Commencement Date	15-Jul-2006
Project Completion Date	15-Jul-2006
Completion Date	
Status	Not Completed

Project Flow

Stages	Objective	Activities	Deliverables	Applet
1	APQP Checklists	Design FMEA Checklist	Completed checklist	
		Design Information Checklist	Completed checklist	
		New Equipment, Tooling and Test Equipment Checklist	Completed checklist	
		Produce / Process Quality Checklist	Completed checklist	
		Floor Plan Checklist	Completed checklist	
		Process Flow Chart Checklist	Completed checklist	
		Process FMEA Checklist	Completed checklist	
		Control Plan Checklist	Completed checklist	
		Eight checklists	Completed checklists	
2	Focus Element Rating Checklist	Twelve checklist	Completed checklists	
3	Retention/Submission Requirements	Record Retention and Submission requirements of documents	Completed records of Retention and Submission requirements of documents	
4	Part Submission Warrant	Details of Part Submission Warrant	Completed details of Part Submission Warrant	
5	Appearance Approval	Details of Appearance	Completed details of	

	Report	Approval Report	Appearance Approval Report	
5	Dimensional Results	Details of Dimensional Results	Completed details of Dimensional Results	
7	Material Test Result	Details of Material Test Results	Completed details of Material Test Results	
8	Performance Test Result	Details of Performance Test Results	Completed details of Performance Test Results	
6	Group of items 3-6 above	Details of group of items 3 - 6 above	Completed details of group of items 3-6 above	

Summary

Production Part Approval Process

DFMEA Check List

Bawani Ho
Acme
2007-Mar-05 : 18:30:27

Applet Introduction

Applet Details	
Applet Title	DFMEA Check List
Description	DFMEA Check List
Objective	Sample for DFMEA Check List
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	DTeam
Team Members	

1	IR00105	Saleh Drus
2	IR0004	Azzizi Azizi

A-1 Design FMEA Check List

Customer or Internal Part No : P003

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Was the SFMEA and / or DFMEA prepared using the Chrysler, Ford and General Motors Potential Failure Mode and Effects Analysis (FMEA) reference manual?	✔				06-Feb-2007
2	Have historical campaign and warranty data been reviewed?		✘			28-Mar-2007
3	Have similar part DFMEAs been considered?					16-Jan-2007
4	Does the SFDMEA and / or DFMEA identify special characteristics?	✔				27-Feb-2007
5	Have design characteristics that affect high risk priority failure modes been identified?		✘			
6	Have appropriate corrective actions been assigned to high risk priority numbers?	✔				
7	Have appropriate corrective actions been assigned to high risk severity numbers?	✔				
8	Have risk priority numbers been revised when corrective actions have been completed and verified?	✔				
				Revision Date	19-Apr-2007	
				Prepared By	Lee Ching	

Production Part Approval Process

Design Info Check list

Bawani Ho
Acme
2007-Mar-05 : 18:38:30

Applet Introduction

Applet Details	
Applet Title	Design Info Check List
Description	Design Info Check list
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-2 Design Information Check List

Customer or Internal Part No : P0067

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	**A. General**					
1	Does the design require:	✔				
2	- New materials?	✔				
3	- Special tooling?	✔				
4	Has assembly build variation analysis been considered?	✔				
5	Has Design of Experiments been considered?	✔				
6	Is there a plan for prototypes in place?	✔				
7	Has a DFMEA been completed?					
8	Has a DFMA been completed?		✘			
9	Have service and maintenance issues been considered?		✘			
10	Has the Design Verification Plan been completed?		✘			
11	If yes, was it completed by a cross functional team?	✔				
12	Are all specified tests, methods, equipment and acceptance criteria clearly defined and understood?	✔				
13	Have Special Characteristics been selected?	✔				
14	Is bill of material complete?	✔				
15	Are Special Characteristics properly documented?					
2	**B. Engineering Drawings**					
1	Have dimensions that affect fit, function and durability been identified?					
2	Are reference dimensions identified to minimize inspection layout time?	✔				
3	Are sufficient control points and datum surfaces identified to design functional gages?	✔				
4	Are tolerances compatible with accepted manufacturing standards?	✔				
5	Are there any requiremnets specified that cannot be evaluated using known inspection techniques?					

3	**C. Engineeing Performance Specifications**						
	1	Have all special characteristics been identified?					
	2	Is test loading sufficient to provide all conditions, I.e., production validation and end use?					
	3	Have parts manufactured at minium and maximum specification been tested?					
	4	Can additional samples be tested when a reaction plan requires it, and still conduct regularly scheduled in-process tests?					
	5	Will all product testing be done in-house?					
	6	If not, is it done by an approved subcontractor?					
	7	Is the specified test sampling size and / or frequency feasible?					
	8	If required, has customer approval been obtained for test equipment?					
4	**D. Material Specification**						
	1	Are specified material characteristics identified?					
	2	Are specified materials, heat treat and surface treatments compatible with the durability requirements in the identified environment?					
	3	Are the intended material suppliers on the customer approved list?					
	4	Will material suppliers be required to provide certification with each shipment?					
	5	Have material characteritics requiring inspection been identified?If so,					
	6	- Will characteristics be checked in-house?					
	7	- Is test equipment available?					
	8	- Will training be required to assure accurate results?					
	9	Will outside laboratories be used?					
	10	Are all laboratories used accredited (if required)?					
	11	Have the following material requirements been considered?					
	12	- Handling?					
	13	- Storage?					
	14	- Environment?					
						Revision Date	
						Prepared By	

Production Part Approval Process

Equip Tooling

Bawani Ho
Acme
2007-Nov-16 : 10:24:01

Applet Introduction

Applet Details	
Applet Title	
Description	Equip Tooling
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-3 New Equipment, Tooling And Test Equipment Check List

Customer or Internal Part No : ggggggggg

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	**Has tool and equipment design provided for:**					
1	- Flexible systems, e.g. cell mfg?			gg	gggggggggggggg	21-Oct-2006
2	- Quick change?					
3	- Volume fluctuations?					
4	- Mistake proofing?					
2	**Have lists been prepared identifying:**					
1	- New equipment?					
2	- New tooling?					
3	- New test equipment?					
3	**Have lists been prepared identifying:**					
1	- New equipment?					
2	- New tooling?					
3	- New test equipment?					
4	Will a preliminary capability study be conducted at the tooling and / or equipment manufacturer?					
5	Has test equipment feasibility and accuracy been established?					
6	Is a preventive maintenance plan complete for equipment and tooling?					
7	Are setup instructions for new equipment and tooling ocmplete and understandable?					
8	Will capable gages be available to run preliminary process capability studies at the equipment suppliers facility?					
9	Will preliminary process capability studies be run at the producing plant?					
10	Have process characteristics that affect special product characteristics been identified?					
11	Were special product characteristics used in determining acceptance criteria/					
12	Does the manufacturing equipment have sufficient capacity to handle forecasted production and service volume?					

13	Is testing capacity sufficient to provide adequate testing?					
				Revision Date		
				Prepared By		

Summary

Production Part Approval Process

Prod/Proc Check list

Bawani Ho
Acme
2007-Nov-16 : 10:24:53

Applet Introduction

Applet Details	
Applet Title	
Description	Prod/Proc Check list
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-4 Product / Process Quality Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1						
1	Is the assistance of the customers quality assurance or product engineering activity needed to develop concur to the control plan?					
2	Has the supplier identified who will be the quality liaison with the customer?					
3	Has the supplier identified who will be the quality liaison with its supplier?					
4	Has the quality system been reviewed using the Chrysler, Ford, and General Motors Quality System Assessment?					
2	**Are there sufficient personnel identified to cover:**					
1	- Control plan requirements?					
2	- Layout inspection?					
3	- Engineering performance testing?					
4	- Problem resolution analysis?					
3	**Is there a documented training program that:**					
1	- Includes all employees?					
2	- Lists who has been trained?					
3	- Provides a training schedule?					
4	**Has training ben completed for:**					
1	- Statistical process control?					
2	- Capability studies?					
3	- Problem solving?					
4	- Mistake proofing/					
5	- Other topics as identified?					
6	Is each operation provided with process instructions that are keyed to the control plan?					
7	Are standard operator instructions available at each operation?					
8	Were operator / team leaders involved in developing standard operator instructions?					

5	**Do inspection instructions include:**						
	1	- Easiliy understood engineering performance specifications?					
	2	- Test frequencies?					
	3	- Sample sizes?					
	4	- Reaction plans?					
	5	- Documentations?					
6	**Are visual aids:**						
	1	- Easily understood?					
	2	- Available?					
	3	- Accessible?					
	4	- Approved?					
	5	- Dated and current?					
	6	Is there a procedure to implement, maintain, and establish reaction plans for statistical control charts?					
	7	Is there an effective root cause analysis system in place?					
	8	Have provisions been made to place the latest drawings ans specifications at the point of inspection?					
	9	Are forms / logs available for appropriate personnel to record inspection results?					
7	**Have provisions been made to place the following at the monitored operation?**						
	1	- Inspection gages?					
	2	- Gage instructions?					
	3	- Reference samples?					
	4	- Inspection logs?					
	5	Have provisions been made to certify and routinely calibrate gages and test equipment?					
8	**Have required measurement system capability studies been:**						
	1	- Completed?					
	2	- Accepted?					
	3	Are layout inspection equipment and facilities adequae to provide initial and ongoing layout of all details and components?					
9	**Is there a procdure for controlling incoming products that identifies:**						

1	- Characteristics to be inspected?						
2	- Frequency of inspection?						
3	- Sample size?						
4	- Designated location for approved product?						
5	- Disposition of nonconforming products?						
6	Is there a procedure to identify, segregate and control noncorforming products to prevent shipment?						
7	Are rework / repair procedures available?						
8	Is there a procedure to requalify repaired / reworked material?						
9	Is there an appropriate Lot Traceability system?						
10	Are periodic audits of outgoing products planned and implemented?						
11	Are periodic surveys of the quality system planned and implemented?						
12	Has the customer approved the packaging specification?						
						Revision Date	
						Prepared By	

Summary

Production Part Approval Process

Floor Plan

Bawani Ho
Acme
2007-Nov-16 : 10:30:11

Applet Introduction

Applet Details	
Applet Title	
Description	Floor Plan
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-5 Floor Plan Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Does the floor plan identify all required process and inspection points?					
2	Have clearly marked areas for all material, tools, and equipment at each operation been considered?					
3	Has sufficient space been allocated for all equipment?					
1	- Of adequate size?					
2	- Proplerly lighted?					
3	Do inspection areas contain necessary equipment and files?					
1	- Staging areas?					
2	- Impound areas?					
3	Are inspection points logically lacated to prevent shipment of nonconforming products?					
4	Have controls been established to eliminate the potential for an operation, including outside processing, to contaminate or mix similar products?					
5	Is material protected from overhead or air handling systems contamination?					
6	Have final audit fackilites been provided?					
7	Are controls adequate to prevent movement of nonconforming incoming material to storage or point of use?					
				Revision Date		
				Prepared By		

Summary

Production Part Approval Process

Process Flow Check List

Bawani Ho
Acme
2007-Nov-16 : 10:31:37

Applet Introduction

Applet Details	
Applet Title	
Description	Process Flow Check List
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-6 Process Flow Chart Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Does the flow chart illustrate the sequence of production and inspection stations?					
2	Were all the appropriate FMEAs (SFMEA, DFMEA) available and used as aids to develop the process flow chart?					
3	Is the flow chart keyed to product and process checks in the control plan?					
4	Does the flow chart describe how the product will move, I.e., roller conveyor, slide containers, etc.?					
5	Has the pull system / optimization been considered for this process?					
6	Have provisions been made to identify and inspect reworked products before being used?					
7	Have potential quality problems due to handling and outside processing been identifed and corrected?					
				Revision Date		
				Prepared By		

Summary

Production Part Approval Process

PFMEA Check List

Bawani Ho
Acme
2007-Nov-16 : 10:33:23

Applet Introduction

Applet Details	
Applet Title	
Description	PFMEA Check List
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-7 Process FMEA Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Was the Process FMEA prepared using the Chrysler, Ford, and General Motors guidelines?					
2	Have all operatons affecting fit, function, durability, governmental reulaions and safety been identified and listed sequentially?					
3	Were similar Part FMEAs considered?					
4	Have historical campaign and warranty data been reviewed?					
5	Have appropriate corrective actions been planned or taken for hish risk priority numbers?					
6	Have appropriate corrective actions been planned or taken for hish risk severity numbers?					
7	Were risk priority numbers revised when corrective action was completed?					
8	Were high severity numbers revised when a design change was completed?					
9	Do the effects consider the customer in terms of the subsequent operation, assembly and product?					
10	Was warranty information used as an aid in developing the Process FMEA?					
11	Were customer plan problems used as an aid in developing the Process FMEA?					
12	Have the causes been described in terms of something that can be fixed or controlled?					
13	Where detection is the major factor, have provisions been made to control the cause prior to the next operation?					
				Revision Date		
				Prepared By		

Summary

Production Part Approval Process

Control Plan Check List

Bawani Ho
Acme
2007-Nov-16 : 10:34:28

Applet Introduction

Applet Details	
Applet Title	
Description	Control Plan Check L ist
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	21-Sep-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-8 Control Plan Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Was the control plan methodology referenced in Section 6 used in preparing the control plan?					
2	Have all known customer concerns been identified to facilitate the selection of special product / process characteristics?					
3	Are all special product / process characteristics included in the control plan?					
4	Were SFDMEA, DFMEA, and PFMEA used to prepare the control plan?					
5	Are material specifications requiring inspection identified?					
6	Does the control plan address incoming (material / components) through processing / assembly including packaging?					
7	Are engineering performance testing requirements identified?					
8	Are gages and test equipment available as required by the control plan?					
9	If required, has the customer approved the control plan?					
10	Are gage methods compatible between the supplier and customer?					
				Revision Date		
				Prepared By		

Summary

Production Part Approval Process

sdfhds jdjfdsf

Bawani Ho
Acme
2007-Nov-16 : 10:45:29

Applet Introduction

Applet Details	
Applet Title	
Description	sdfhds jdjfdsf
Objective	
Abstract	
Team Leader	Bawani Ho
Commencement Date	20-Aug-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

A-1 Design FMEA Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Was the SFMEA and / or DFMEA prepared using the Chrysler, Ford and General Motors Potential Failure Mode and Effects Analysis (FMEA) reference manual?					
2	Have historical campaign and warranty data been reviewed?					
3	Have similar part DFMEAs been considered?					
4	Does the SFDMEA and / or DFMEA identify special characteristics?					
5	Have design characteristics that affect high risk priority failure modes been identified?					
6	Have appropriate corrective actions been assigned to high risk priority numbers?					
7	Have appropriate corrective actions been assigned to high risk severity numbers?					
8	Have risk priority numbers been revised when corrective actions have been completed and verified?					
				Revision Date		
				Prepared By		

A-2 Design Information Check List

Check List is empty. Generate Check List.

A-3 New Equipment, Tooling And Test Equipment Check List

Check List is empty. Generate Check List.

A-4 Product / Process Quality Check List

Check List is empty. Generate Check List.

A-5 Floor Plan Check List

Check List is empty. Generate Check List.

A-6 Process Flow Chart Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Does the flow chart illustrate the sequence of production and inspection stations?					
2	Were all the appropriate FMEAs (SFMEA, DFMEA) available and used as aids to develop the process flow chart?					
3	Is the flow chart keyed to product and process checks in the control plan?					
4	Does the flow chart describe how the product will move, I.e., roller conveyor, slide containers, etc.?					
5	Has the pull system / optimization been considered for this process?					
6	Have provisions been made to identify and inspect reworked products before being used?					
7	Have potential quality problems due to handling and outside processing been identifed and corrected?					
				Revision Date		
				Prepared By		

A-7 Process FMEA Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Was the Process FMEA prepared using the Chrysler, Ford, and General Motors guidelines?					
2	Have all operatons affecting fit, function, durability, governmental reulaions and safety been identified and listed sequentially?					
3	Were similar Part FMEAs considered?					
4	Have historical campaign and warranty data been reviewed?					
5	Have appropriate corrective actions been planned or taken for hish risk priority numbers?					
6	Have appropriate corrective actions been planned or taken for hish risk severity numbers?					
7	Were risk priority numbers revised when corrective action was completed?					
8	Were high severity numbers revised when a design change was completed?					
9	Do the effects consider the customer in terms of the subsequent operation, assembly and product?					
10	Was warranty information used as an aid in developing the Process FMEA?					
11	Were customer plan problems used as an aid in developing the Process FMEA?					
12	Have the causes been described in terms of something that can be fixed or controlled?					
13	Where detection is the major factor, have provisions been made to control the cause prior to the next operation?					
				Revision Date		
				Prepared By		

A-8 Control Plan Check List

Customer or Internal Part No :

No.	Question	Yes	No	Comment / Action Required	Person Responsible	Due Date
1	Was the control plan methodology referenced in Section 6 used in preparing the control plan?					
2	Have all known customer concerns been identified to facilitate the selection of special product / process characteristics?					
3	Are all special product / process characteristics included in the control plan?					
4	Were SFDMEA, DFMEA, and PFMEA used to prepare the control plan?					
5	Are material specifications requiring inspection identified?					
6	Does the control plan address incoming (material / components) through processing / assembly including packaging?					
7	Are engineering performance testing requirements identified?					
8	Are gages and test equipment available as required by the control plan?					
9	If required, has the customer approved the control plan?					
10	Are gage methods compatible between the supplier and customer?					
				Revision Date		
				Prepared By		

Summary

Production Part Approval Process

FER Check List

Bawani Ho
Acme
2007-Mar-05 : 18:35:10

Applet Introduction

Applet Details	
Applet Title	FER Check List
Description	FER Check List
Objective	a Sample Example for FER Check List
Abstract	
Team Leader	Bawani Ho
Commencement Date	09-Nov-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	FerChkLst Team
Team Members	

1	IR00105	Saleh Drus
2	IR NEW	shfvgjm belmnbm

Status Report

Date	26-Feb-2007		
Review No.	REV002		
Diamond Point			
Supplier		**Program**	
Location		**Model Year**	
Supplier Code		**Lead Part No.**	
Risk Assessment	New Site Technology Process	**Part Name**	
Other Risks		**Eng. Level**	
		User Plant(s)	

No.	Team Members	Company/Title	Phone/Fax
1	Allan		

No.	Build Level	Material Required Date	Quantity	Concurred		P.I.S.T.%	P.I.P.C.%
				No. SC's	No. CC's		
1			0				

No	APQP Elements	GYR Status	Focus Element Rating	Program Need Date	Supplier Timing Date	Closed Date	Resp. Engineer Initials	Remarks or Assistance Required
1	Sourcing Decision				24-Nov-2006			
2	Customer Input Requirements							
3	Design FMEA		0					
4	Design Review(s)							
5	Design Verification Plan		0					
6	Subcontractor APQP Status				08-Nov-2006			
7	Facilities, Tools and Gages							
8	Prototype Build Control Plan		0					
9	Prototype Builds							
10	Drawings and Specifications							

11	Team Feasibility Commitment							
12	Manufacturing Process Flow Chart		0					
13	Process FMEA		0					
14	Measurement Systems Evaluation							
15	Pre-Lauch Control Plan		0					
16	Operator Process Instructions		1					
17	Packaging Specifications							
18	Production Trial Run							
19	Production Control Plan		1					
20	Preliminary Process Capability Study							
21	Production Validation Testing							
22	Production Part Approval (PSW)							
23	PSW Part Delivery at MRD							

Design Failure Modes and Effects Analysis

No.	Expectations	Yes	Comments
1	A design responsible cross-functional team must develop the Design FMEA	✔	
2	The Design FMEA must be prepared using the approvial Ford (1696A), Chrysler-Ford GM FMEA (1995 or later edition), or Society of Automotive Engineers (J1739)Manual.		
3	Lessons learned from campains, recalls, user plant concerns, similar part Design FMEA's, things gone wrong and warranty data must be addressed during current part Design FMEA development.		
4	Every component design function must be included in the Design FMEA	✘	
5	Failure modes must be listed and described in physical, technical and measurable terms.	✘	
6	The effects of failures must address the impact on each part, next higher assembly, system,vehicle, customer wants and government regulations.	✔	
7	Corrective actions, responsibilities and completion dates must be assigned to high severity numbers and high risk priority numbers.	✔	
8	Risk priority numbers must be revised to reflect verified corrective actions.		
9	The Design FMEA must identify potential special product characteristics.	✘	
10	Potential causes and/or mechanisms of failure must be identified for all failure modes.	✘	
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	A Concept (System) FMEA was completed prior to starting the Design FMEA.		
2	Fault tree analysis, failure mode analysis, or other analytical methods were used in preparing the Design FMEA		
3	Robust design techniques were used in developing corrective actions.	✔	
4	Other innovations (please detail in "Innovations" box below).	✘	
		3	**boxes checked**
		1	**boxes checked**
Rating		**0**	
[0]	Less than 5 boxes checked in "Expectations"		
[1]	5 to 9 boxes checked in "Expectations"		
[2]	All 10 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.		
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.		

Innovations
APQP Status Reporting Guideline, January 1996

Design Verification Plan

No.	Expectations	Yes	Comments
1	A cross-functional team must be used in the completion of the Design Verification Plan		
2	Engineering methods, supported by statistical analysis, have been used to correct undesirable results from DV Testing.	✔	
3	Tests must include variation within tolerance on selected product characteristics chosen by the team	✔	
4	The Design Verification Plan must include retest requirements for design, material, or manufacturing process changes that occur prior to the production trial run.		
5	Design Verification Plan must include tests that address environmental aging, dimensional wear,and material fatigue.		
6	Design Verificatian Plan must include tests that address the "90th percentile" customer usage profile and duty cycle.		
7	Design Verificatian Plan must include tests that address the usefull life (10yrs/150k miles) of the product.		
8	Design Verification Plan must include tests that address the effects of the external environment (climate, road surface conditions, etc.)		
9	Design Verification Plan must include tests that address the effects of the internal environment created by neighboring sub-systems.	✔	
10	Design Verification Plan must include tests that address the effects of physical interfaces between components or systems.		
11	Design Verification Plan should include tests that are designed to detect a failure using variable datas. Note: a failure is a significant event; partial, degraded, intermittent,or total product failure.	✘	
12	The team must agree upon operating definitions of failure and success.	✘	
13	Design Verification Plan must include a procedure to document and react when the distribution of product failures does not meet design and reliability goals.		
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	Acclerated test models have been validated by testing to failure and field data.	✔	
2	Engineering methods, supported by statistical analysis, have been used to correct undesirable results from DV Testing.	✘	
3	Design verification plan includes testing the component in the customer's product in addition to bench tests.	✔	
4	Design Verification tests use variables data to measure how well the component or sub-system functions within the system.	✘	
5	Other innovations (please detail in "Innovations" box below).		
		3	**boxes checked**
		2	**boxes checked**
Rating		**0**	

[0]	Less than 7 boxes checked in "Expectations"
[1]	7 to 12 boxes checked in "Expectations"
[2]	All 13 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.
Innovations	
APQP Status Reporting Guideline, January 1996	

Prototype Build - Control Plan

No.	Expectations	Yes	Comments
1	A cross-functional team must be used in the completion of the Prototype-Build Control Plan.	✔	
2	The cross-functional team reviewed all product characteristics, identified those required for the prototype control plan and obtained Design Engineering approval.	✘	
3	Potential special characteristics from the Design FMEA, the customer and other sources must be clearly identified on the control plan.		
4	Inspection plans must be defined for all material and engineering specifications.		
5	Gages and test equipment to be used in the prototype phases must be identify on the prototype control plan	✔	
6	Gages and test equipment identified on the prototype control plan must be accurate, discriminant, repeatable and reproducible.	✔	
7	Documented measurement procedures, techniques and datums must be referenced on the control plan.	✘	
8	Reaction plans must clearly state that all non-conformances or repairs require customer authorization.	✘	
9	The customer must be given the opportunity to approve the prototype-build control plan.		
10	Prototype processes that are different from the intended production processes must be documented on the prototype control plan	✔	
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	A flow chart of the prototype build process has been prepared prior to the completion of the prototype build control plan.	✔	
2	The process parameter conditions have been documented on the control plan.	✘	
3	When existing production processes are used to produce prototype components, all special characteristics are capable and in statistical control.	✔	
4	Other innovations (please detail in "Innovations" box below).		
		4	**boxes checked**
		1	**boxes checked**
Rating		**0**	

[0]	Less than 5 boxes checked in "Expectations"
[1]	5 to 9 boxes checked in "Expectations"
[2]	All 10 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.

Innovations
APQP Status Reporting Guideline, January 1996

Manufacturing Process Flow Chart

No.	Expectations	Yes	Comments
1	A cross-functional team must be used to develop the manufacturing process flow chart.	✔	
2	The process flow chart must illustrate the sequence of production operations including: inspection, transportation, storage, subcontracted services, and alternate paths (rework, repair & backup).	✔	
3	The current part Design FMEA must be used as an aid to develop the process flow chart.		
4	Surrogate part process flow charts and process FMEA's must be used in the development of the current part process flow chart.	✘	
5	The process flow chart must describe how the product will move within the process (e.g. roller conveyor, slide, containers).	✘	
6	The process flow chart must have a key for symbols.		
7	Each operation must be clearly described on the process flow chart.	✔	
8	All operations affecting special characteristics must be appropriately identified on the process flow chart.	✘	
9	The desired product and process characteristic outcomes of each operation must be identified on the process flow chart.	✔	
10	There is evidence that changes have been made in the process flow to reduce potential process variability.	✘	
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	Dynamic Control Planning techniques have been used to develop the process flow chart	✘	
2	The controlling correlations have been identified between product and process characteristics, or groups of product characteristics.	✘	
3	There is evidence that changes have been made in the process flow to improve safety and ergonomics.	✔	
4	Other innovations (please detail in "Innovations" box below).	✔	
		4	**boxes checked**
		2	**boxes checked**
Rating		**0**	
[0]	Less than 5 boxes checked in "Expectations"		
[1]	5 to 9 boxes checked in "Expectations"		
[2]	All 10 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.		
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.		
Innovations			

APQP Status Reporting Guideline, January 1996

Process Failure Mode and Effects Analysis

No.	Expectations	Yes	Comments
1	A manufacturing responsible cross-functional team must develop the Process FMEA		
2	The Process FMEA must be prepared using the approved Ford (1696A), Ford-GM-Chrysler FMEA Manual (1995 edition), or Society of Automotive Engineers (J1739) Manual.		
3	Lessons learned from champaigns, recalls, user plants concerns, similar process FMEAs, things gone wrong and warrenty data must be addressed during current part process FMEA development.		
4	All operations from the process flow chart must be identified and listed sequentially on the process FMEA		
5	Failure mode must be described in pysical, technical and measurable terms.		
6	The effects of failures must address the impact on each part, next higher assembly, system, vehicle, customer wants, government regulations and operator safety.		
7	Potential causes and/or mechanisms of failure must be identified for all failure modes.		
8	Causes must be described in terms of something that can be corrected or controlled.	✔	
9	Causes must be consider people, material methodes, measurement systems and environment.	✔	
10	Corrective actions, responsibilities and completion dates must be assigned to high severity failure modes and high risk priority numbers.		
11	Mistake proofing must be used in addressing corrective actions.		
12	Risk priority numbers must be revised to reflect verified corrective actions.		
13	Severity numbers cannot change unless a design action reduces the effect of the failure mode and the design FMEA has been revised to incorporate the design action.		
14	The process FMEA must identify potential special characteristics.		
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	The Dynamic Control Planning methodology was used in the development of the process FMEA.		
2	Fault tree analysis, failure mode analysis, or other analytical methods were used in preparing the process FMEA.		
3	Correlation has been made between sources of variation and product characteristics or downstream operations.		
4	Characteristics, other than special characteristics, have been classified as to their importance.		
5	Other innovations (please detail in "Innovations" box below).		
		2	**boxes checked**
		0	**boxes checked**

Rating		0	
[0]	Less than 7 boxes checked in "Expectations"		
[1]	7 to 13 boxes checked in "Expectations"		
[2]	All 14 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.		
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.		
Innovations			
APQP Status Reporting Guideline, January 1996			

Pre-Launch Control Plan

No.	Expectations	Yes	Comments
1	A manufacturing responsible cross-functional team must develop the pre-launch control plan.		
2	The pre-launch control plan must be prepared per section 6 of the Chrysler-Ford-General Motors Advanced Product Quality Planning Manual and Control Plan Reference Manual.		
3	Special characteristics from the process and design FMEAs, the customer and other sources must be clearly identified on the pre-launch control plan.	✔	
4	Inspection plans must be definied for all material and engineering specifications.	✔	
5	Flow chart operations and their desired product and process characteristic specifications must be listed on the pre-launch control plan.		
6	Data must be developed to show the direct relationship between special characteristics and their controling process parameters.	✘	
7	Gages and test equipment to be used during the production trial run must be identified on the pre-launch control plan.	✘	
8	Evidence must be available to show that gages and test equipment identified on the pre-launch control plan are accurate, discriminant, repeatable and reproducible.		
9	The customer must be given the opportunity to approve the pre-launch control plan.	✔	
10	Documented measurement procedures, techniques and datums must be referenced on the pre launch control plan.	✔	
11	Current controls listed in the process FMEA must be consistent with those listed on the pre-launch control plan.		
12	Control methods must address the requirement to produce product characteristics within specification.		
13	Reaction plans must specify the corrective and containment actions necessary to avoid operating out of control or producing nonconforming products.	✔	
14	Reaction plans must be written so the operator can understand and implement them.	✔	
15	Capability study requirements must be documented on the pre-launch control plan.		
16	Tests and measurements required for Production Part Approval must be clearly identified on the pre-launch control plan.		
17	Appropriate inspection sample sizes and frequencies must be documented on the pre-launch control plan.	✘	
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	The Dynamic Control Planning methodology was used to develop the pre-launch control plan.	✔	
2	Product characteristic relationships from the characteristic matrix have been analyzed to determine which are the vital few requiring control.	✘	
3	Data has been developed to show direct relationships between product characteristics (other than special characteristics)		

	and their controlling process parameters.	✗	
4	Control methods and/or sampling plans economically optimized using quality cost models such as Taguchi or Juran.	✔	
5	Other innovations (please detail in "Innovations" box below).	✔	
		6	**boxes checked**
		3	**boxes checked**
Rating		**0**	
[0]	Less than 9 boxes checked in "Expectations"		
[1]	9 to 16 boxes checked in "Expectations"		
[2]	All 17 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.		
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.		
Innovations			
APQP Status Reporting Guideline, January 1996			

Operator Process Instructions

No.	Expectations	Yes	Comments
1	A manufacturing responsible cross-functional team must be used to develop the process instructions.	✔	
2	Process instructions must be accessible and visible at the work station and communicate requirements to all employees	✔	
3	Process instructions must specify monitoring of special characteristics.	✔	
4	Process instructions must list requirements for inspection, testing, gaging and recording results, with adequate sample size and frequency.	✔	
5	Process instructions must establish approval and rejection criteria.	✘	
6	Process instructions must list required tools and gages with calibration requirements, job set-up and tool change intervals.		
7	Process instructions must document the identification and handling of non-conforming material.		
8	Process instructions must specify reaction plans for unstable/non-capable processes, including notifications and corrective actions.	✔	
9	Process instructions must specify application of statistical methods required by control plans.	✔	
10	Process instructions must show operation name and number, part name and number, revision dates, engineering level, and appropriate approvals.	✔	
11	Process instructions must reference available visual aids.	✔	
12	Process instructions must be verified during the production trial run to ensure that they can perform as intended.		
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	The Dynamic Control Planning methodology was used in the development of the process instructions.	✘	
2	Diagnostic guides were developed as part of each instruction.	✔	
3	Customer usage of the product is clearly identified as part of the process instructions.	✔	
4	Other innovations (please detail in "Innovations" box below).	✘	
		8	**boxes checked**
		2	**boxes checked**
Rating		**1**	
[0]	Less than 6 boxes checked in "Expectations"		
[1]	6 to 11 boxes checked in "Expectations"		

[2]	All 12 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.

Innovations

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APQP Status Reporting Guideline, January 1996

Production Control Plan

No.	Expectations	Yes	Comments
1	A manufacturing responsible cross-functional team must be used to develop the production control plan.	✔	
2	The pre-launch control plan must be prepared per section 6 of the Chrysler-Ford-General Motors Advanced Product Quality Planning Manual and Control Plan Reference Manual.	✔	
3	Special characteristics from the process and design FMEAs, the customer and other sources must be clearly identified on the production control plan.	✘	
4	Inspection plans must be definied for all material and engineering specifications.	✔	
5	Flow chart operations and their desired product and process characteristic specifications must be listed on the production control plan.	✘	
6	Data must be developed to show the direct relationship between special characteristics and their controlling process parameters.	✘	
7	Gages and test equipment to be used during production must be identified on the production control plan.	✔	
8	Evidence must be available to show that gages and test equipment identified on the production control plan are accurate, discriminant, repeatable and reproducible.	✔	
9	The customer must be given the opportunity to approve the production control plan.	✘	
10	Documented measurement procedures, techniques and datums must be referenced on the production control plan.	✘	
11	Reaction plans must specify the containment and corrective actions necessary to avoid producing nonconforming products or operating out of control.	✔	
12	Control methods must address the requirement to produce product characteristics within specification.	✘	
13	Current controls listed in the process FMEA must be consistent with those listed on the production control plan.		
14	Reaction plans must be written so the operator can understand and implement them.	✔	
15	Statistical control methods must be documented on the production control plan.	✔	
16	Control methods and reaction plans must be updated to address any issues and lessons learned during the production trial run, including countermeasures for known capability problems.	✘	
17	Appropriate sample sizes and frequencies must be documented on the production control plan.	✔	
Note: If an "Expectations" checklist item is not applicable, the team shell note reason in comments section and check the "yes" box upon customer approval.			
Exceeds Expectations			
1	The Dynamic Control Planning methodology was used to develop the production control plan.	✔	
2	In addition to special characteristics, data has been developed to show direct relationships between other product characteristics and their controlling process parameters.	✘	

3	Product characteristic relationship from the characteristic matrix have been analyzed to determine which are the vital few requiring control.	✔	
4	Control methods and/or sampling plans economically optimized using quality cost models such as Taguchi or Juran.	✘	
5	Other innovations (please detail in "Innovations" box below).	✔	
		9	**boxes checked**
		3	**boxes checked**
Rating		**1**	
[0]	Less than 9 boxes checked in "Expectations"		
[1]	9 to 16 boxes checked in "Expectations"		
[2]	All 17 boxes checked in "Expectations" plus specific "Exceeds Expectations" designated by Ford Program Management.		
[3]	All "Expectations" complete with one or more boxes checked in "Exceeds Expectations" excluding those designated as "Expectations" by Ford Program Management.		
Innovations			
APQP Status Reporting Guideline, January 1996			

Need Dates

No.	Description	Questions		Days/Date	PND
1	**Parts Submission Warrant (PSW)**	a)	What is the Production MRD?		
2	**Production Part Approval.** PSW must be submitted prior to PSW Parts being delivered to customer plant Production Validation MRD.	a)	How many days to ship parts once PSW is approved?		
		b)	How many days does the customer require to review the "Production Part Approval" package?		
3	**Production Validation (PV) Testing.** PV testing must be completed, analysed and formatted for inclusion into the PSW package.	a)	How many days are needed to compile the Production Part Approval (PSW) submission once all requirements are completed (ie testing, control plans, etc.)?		
4	**Preliminary Process Capability Studies.** These must be completed, analysed and formatted for inclusion into PSW package. This should be done prior to PV testing.	a)	a) How many days to complete PV testing?		
		b)	b) How many days does the customer require to review data?		
5	**Production Control Plan.** This must be completed and signed off for inclusion into the PSW package.	a)	How many days will it take to analyse data specifically for the capability studies?		
6	**Production Trial Run.** This build generates data for Ppk Studies and parts for PV testing.	a)	How many days to compile PSW information once completed?		
7	**Package Specifications.** This must be complete in order to ship PSW parts to PV MRD.	a)	How many days to receive sufficient quantities of packaging once it is approved?		
		b)	How many days to ship parts for packaging?		
8	**Operator Process Instructions.** This must be in place for Production Trial Run.	a)	How many days required to train and post instructions for operators?		
		b)	How many days to build PTR parts?		
9	**Pre Launch Control Plan.** This must be completed and signed off by customer prior to PTR.	a)	How many days to post control plan?		
		b)	How many days to build PTR parts?		
		c)	How many days for customer to review?		
10	**Measurement Systems Evaluation.** This must be completed prior to finalization of the Pre Launch Control Plan.	a)	How many days to include GR&R data for pre launch control plan		
11	**PFMEA.** This must be completed prior to PND for Pre Launch Control Plan and Operator	a)	How many days does it take to include added controls or process actions from the		

	process inst. to ensure FMEA are updated in the PLCP or OPI prior to PTR.		FMEA in the Pre Launch Control Plan of Operator Process Instructions?		
12	**Manufacturing Process Flow Chart.** This must be completed prior to PFMEA (used to start the FMEA process).	**a)**	How many days to complete PFMEA		
13	**Team Feasibility Commitment.** This must be completed prior to ordering tooling for Production Trial Run.	**a)**	How many days to build PTR parts?		
		b)	How many days will it take to train operators on tools?		
		c)	How many days to order tooling?		
14	**Drawings and Specifications.** This must be finalised to build or revise production tooling for Production Trial Run.	**a)**	How many days will it take to build or revise tools, deliver and prove out?		
15	**Prototype Builds.** This changes throughout the program.	**a)**	What is the next Prototype Build Date?		
16	**Prototype Build Control Plan.** This must be completed and signed off prior to first Prototype Build. (Update as necessary).	**a)**	When is the earliest MRD for Prototype Build?		
		b)	How many days will it take to build and test prototype parts?		
		c)	How many days required for reviewing and approving Prototype Build Control Plan?		
17	**Facilities,Tools and Gauges.** This must be in place and proven out for PTR.	**a)**	How many days to build parts?		
		b)	How many days will it take to train operators and perform Trial runs?		
18	**Subcontractor APQP**	**a)**	No Program Need Date		
19	**Design Verification Plan (DVP).** This must be in place for first prototype build.	**a)**	When is the earliest Prototype Build MRD?		
		b)	How many days will it take to communicate requirements on DVP to necessary personnel?		
20	**Design Reviews**	**a)**	PND could be date of next scheduled review		
21	**Design FMEA.** This must be completed prior to DVP.	**a)**	How many days will it take to develop the DVP?		
22	**Customer Input Requirements.**	**a)**	These will vary from supplier to supplier. No overall formula works		
23	**Sourcing Decision**	**a)**	Suppliers should communicate last possible date these elements can be completed and not adversely affect the program.		

Product Quality Planning Summary and Sign-Off

Product Name		**Date**	30-Oct-2006
Customer		**Product Number**	
		Manufacturing Plant	

1. Preliminary process capability Study

	Quantity		
	Required	**Acceptable**	**Pending ***
Ppk Special Characteristics			

2. Control Plan Approval (If Required)	**Approved : Yes / No***	Yes	**Date Approved** 16-Nov-2006

3. Initial Production Samples Characteristic Category

	Quantity			
	Samples	**Characteristics Per Sample**	**Acceptable**	**Pending ***
Dimensional				
Visual				
Laboratory				
Performance				

4. Gage and Test Equipment Measurement System Analysis

	Quantity		
	Required	**Acceptable**	**Pending ***
Special Characteristic			

5. Process Monitoring

	Quantity		
	Required	**Acceptable**	**Pending ***
Process Monitoring Instructions			
Process Sheets			
Visual Aids			

6. Preliminary process capability Study

	Quantity		
	Required	**Acceptable**	**Pending ***
Packaging Approval			
Shipping Trials			

7. Sign - off

/ / 23-Nov-2006	/ /
Team Member / Title / Date	**Team Member / Title / Date**
/ /	/ /
Team Member / Title / Date	**Team Member / Title / Date**
/ /	/ / 28-Nov-2006
Team Member / Title / Date	**Team Member / Title / Date**

**** Requires Preparation of an Action Plan to Track Progress***

Supplier Technical Assistance Launch Risk Assessment Sheet

Section 1

Supplier		**Date**	
Vendor Code			
STA Engineer			

Risk Assessment applies to the following part numbers

No.	Part Name	Release	Date
1			

Section 2

APQP completed?	Yes
Risk?	Yes

APQP Section Status G : Green Y : Yellow R : Red

1		**2**		**3**		**4**		**5**		**6**		**7**		**8**	
9		**10**		**11**		**12**		**13**		**14**		**15**		**16**	
17		**18**		**19**		**20**		**21**		**22**		**23**			

PIST	0
PIST Cp Value	0
Cpk Value	0

Section 3

Risk Description	

Action Plan Available?	Yes
Actions Required/Planned	

Section 5

PSW (ISW) Date	

Risk Assessment		
Key	Green	O.K.
	Yellow	Not on target, but understand all issues and have a detailed recovery plan which is accepted by the Team
	Red	Not on target, but understand all issues. No plan available

Supplier Contact	
Telephone	
Fax	
Supplier Signature	

Production Part Approval Process

Sub Requirement

Badrulhisham Fauzi
Acme
2007-Mar-05 : 18:40:02

Applet Introduction

Applet Details	
Applet Title	SREA
Description	Sub Requirement
Objective	
Abstract	
Team Leader	Badrulhisham Fauzi
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Retention/Submission Requirements

Name of Study : **Retain/Submit**

No.	Requirement	Level 1	Level 2	Level 3	Level 4	Level 5
1	Design Records Of Saleable Product	S	S	*	*	*
	- for Proprietary components/details	S	*	*	S	S
	- for all other components/details	S	*	*	R	S
2	Engineering Change Documents, if any	R	*	S	S	S
3	Customer Engineering approval, if required	S	S	S	R	*
4	Design FMEA	R				
5	Process Flow Diagrams	R	R	R	R	S
6	Process FMEA	R	R	R	R	S
7	Dimensional Results	S	S	S	S	S
8	Material, Performance Test Results	R	S	S	S	*
9	Initial Process Study	R	R	S	S	S
10	Measurement System Analysis Studies	R	R	R	S	S
11	Qualified Laboratary Documentation					S
12	Control Plan	R	R	R	R	R
13	Part Submission Warrant (PSW)	S	S	S	S	S
14	Appearance Approval Report, (AAR) if applicable	S	S	S	S	*
15	Bulk Material Requirements Checklist (for bulk material PPAP only)	R	R	R	S	S
16	Sample Product	S	S	S	S	S
17	Master Sample	S	S	S	S	S
18	Checking Aids	R	R	R	R	R
19	Records Of Compliance With Customer-Specific Requirements	S	S	S	S	S

S =	The supplier shall submit to designated customer product approval activity and retain a copy of records or documentation items at appropriate locations, including manufacturing.
R =	The supplier shall retain at appropriate locations, including manufacturing, and make **readily** available to the customer representative upon request.
*** =**	The supplier shall retain at appropriate locations, and submit to customer upon request.

Production Part Approval Process

Part Submissions

Dev Anand Balan
Acme
2007-Mar-05 : 18:42:46

Applet Introduction

Applet Details	
Applet Title	PSW
Description	Part Submissions
Objective	Working example for Part Submission
Abstract	
Team Leader	Dev Anand Balan
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Part Submission Warrant

Name of Study : **Test**

Clutch	Cl002V9
Part Name	**Part Number**

Safety and/or Government Regulation	○ Yes ◉ No
Engineering Drawing Change Level	**Dated**
Additional Engineering Changes	**Dated**

Shown on Drawing No.	**Purchase Order No.**	**Weight (kg)**
Checking Aid No.	**Engineering Change Level**	**Dated**

Supplier Manufacturing Information	**Submission Information**
	☐ Dimensional ☐ Mat/Func ☐ Appearance
Supplier Name	
Supplier Code	**Customer Name / Division**
Street Address	**Buyer/Buyer Code**
City/State/Postal Code	**Application**

Notes	
Does this part contain any restricted or reportable substances?	Yes No
Does this part contain any restricted or reportable substances?	Yes No

Reason for Submission

Initial Submission	Change to Optional Construction or Material
Engineering Change(s)	Sub-Supplier or Material Source Change
Tooling: Transfer, Replacement, Refurbishment, or additional	Change in Part Processing
Correction or Discrepancy	Parts Produced at Additonal Location
Tooling Inactive > than 1 year	Other - please specify

Reason for Submission

- Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- Level 4 - Warrant and other requirements as defined by customer.
- Level 5 - Warrant with product samples and complete supporting date reviewed at supplier's manufacturing location.

Submission Results

The results for dimensional measurements | material and functional tests | appearance criteria | statistical process package

The results meet all drawing and specification requirements: Yes No (If "NO" - Explanation Required)

Mold / Cavity / Production Process

Declaration

I hereby affirm that the samples represented by this certification are representative or our parts, have been made to the applicable customer drawings and specifications, and are made from the specified materials on regular production tooling with no operations other than the regular production process. I also certify that documented evidence of such compliance is on file and available for review.

Explanation / Comments

Print Name	Title	Phone No.

Supplier Authorized Person	Date	Fax No.

Part Warrant Disposition:	○ Accepted ○ Interim Approval	○ Dimensional measurements
Part Functional Approval:	○ Accepted	○ Waived

Production Part Approval Process

AAR

Shankaran Sugandhan
Acme
2007-Mar-05 : 18:45:28

Applet Introduction

Applet Details	
Applet Title	AAR
Description	AAR
Objective	
Abstract	
Team Leader	Shankaran Sugandhan
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Appearance Approval Report

Production Part Approval Process

Dimension

Eswari Raman
Acme
2007-Nov-16 : 11:03:29

Applet Introduction

Applet Details	
Applet Title	
Description	Dimension
Objective	
Abstract	
Team Leader	Eswari Raman
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Dimensional Results

Name of Study : **Dimensional Results**

Supplier	Moody Radiators	**Part Number**	R-01
Name of Inspection Facility	Dimensions Verification	**Part Name**	Radiator

ITEM	DIMENSION/SPECIFICATION	SUPPLIER MEASUREMENT RESULTS	OK	NOT OK
vessel	24*67*34	Accepted	◉	○
Coupling	23*34*45	Accepted	◉	○
Plating	44	444	◉	○

SIGNATURE	TITLE	DATE
Abc	Vendor Inspector	09/19/2006

Summary

Production Part Approval Process

Materials

Sridevi Shangkar
Acme
2007-Nov-16 : 11:01:05

Applet Introduction

Applet Details	
Applet Title	
Description	Materials
Objective	
Abstract	
Team Leader	Sridevi Shangkar
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Material Test Result

Name of Study : **Material Test Result**

Supplier	Mandi Locomoters	**Part Number**	M-02
Name of Laboratory	Strength Of Materials	**Part Name**	Brake Drum

Type of Test	DIMENSION/SPECIFICATION	SUPPLIER MEASUREMENT RESULTS	OK	NOT OK
Hardness	185 kgs	Accepted	◉	○
x	vcxv	cxvcxv	○	◉
cv	xcv	xcvcxv	○	◉
c	vcx	vcxvcv	◉	○
cxv	cxv	cxvcxvxcvcxvxcv	◉	○
xcv	cxvxc	vxcvcxv	◉	○
cxv	cxv	xvcxvcxv	◉	○

SIGNATURE	TITLE	DATE
Rajj	Inspector	09/30/2005

Summary

Production Part Approval Process

Performance

Sally Rodgers
Acme
2007-Nov-16 : 11:06:43

Applet Introduction

Applet Details	
Applet Title	
Description	Performance
Objective	
Abstract	
Team Leader	Sally Rodgers
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Performance Test Result

Name of Study : **Performance Test Result**

Supplier	Dast Cylinders	**Part Number**	C-02
Name of Laboratory	Automobile	**Part Name**	Master Cylinder

Ref. No.	Requirements	Test Freq.	Qty. Tested	Supplier Test Results and Test Conditions	OK	NOT OK
Cr-02	Iol and Wheel cylinders	10days	12	Accepted		
cxv	cxvcxv					
cxv	cxvcxv					
cxvcx	vxcv					
xcv	cxvxcv					

Signature	Title	Date
Girindar	Inspector	10/12/2005

Summary

Production Part Approval Process

SignOff

Eswari Raman
Acme
2007-Nov-16 : 11:17:24

Applet Introduction

Applet Details	
Applet Title	
Description	SignOff
Objective	
Abstract	
Team Leader	Eswari Raman
Commencement Date	15-Jul-2006
Expected Completion Date	
Completion Date	
Status	Not Completed
Team Name	
Team Members	***No Team Members are selected.***

Retention/Submission Requirements

Name of Study : **Exp 1**

No.	Requirement	Level 1	Level 2	Level 3	Level 4	Level 5
1	Design Records Of Saleable Product	R				
	- for Proprietary components/details	S				
	- for all other components/details		*			
2	Engineering Change Documents, if any					
3	Customer Engineering approval, if required				R	
4	Design FMEA		R			
5	Process Flow Diagrams					
6	Process FMEA					
7	Dimensional Results					
8	Material, Performance Test Results					
9	Initial Process Study					
10	Measurement System Analysis Studies					
11	Qualified Laboratary Documentation					
12	Control Plan					
13	Part Submission Warrant (PSW)					
14	Appearance Approval Report, (AAR) if applicable					
15	Bulk Material Requirements Checklist (for bulk material PPAP only)					
16	Sample Product					
17	Master Sample					
18	Checking Aids					
19	Records Of Compliance With Customer-Specific Requirements					

S =	The supplier shall submit to designated customer product approval activity and retain a copy of records or documentation items at appropriate locations, including manufacturing.
R =	The supplier shall retain at appropriate locations, including manufacturing, and make **readily** available to the customer representative upon request.
*** =**	The supplier shall retain at appropriate locations, and submit to customer upon request.

Part Submission Warrant

Name of Study : **Exp 1**

Brake Linings	B-02
Part Name	**Part Number**

Safety and/or Government Regulation ○ Yes ◉ No

Engineering Drawing Change Level	**Dated**
Additional Engineering Changes	**Dated**

Shown on Drawing No.	**Purchase Order No.**	**Weight (kg)**
Checking Aid No.	**Engineering Change Level**	**Dated**

Supplier Manufacturing Information	**Submission Information**
	☐ Dimensional ☐ Mat/Func ☐ Appearance
Supplier Name	
Supplier Code	**Customer Name / Division**
Street Address	**Buyer/Buyer Code**
City/State/Postal Code	**Application**

Notes	
Does this part contain any restricted or reportable substances?	Yes No
Does this part contain any restricted or reportable substances?	Yes No

Reason for Submission

- Initial Submission
- Engineering Change(s)
- Tooling: Transfer, Replacement, Refurbishment, or additional
- Correction or Discrepancy
- Tooling Inactive > than 1 year
- Change to Optional Construction or Material
- Sub-Supplier or Material Source Change
- Change in Part Processing
- Parts Produced at Additonal Location
- Other - please specify

Reason for Submission

- Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- Level 4 - Warrant and other requirements as defined by customer.
- Level 5 - Warrant with product samples and complete supporting date reviewed at supplier's manufacturing location.

Submission Results

The results for
- dimensional measurements
- material and functional tests
- appearance criteria
- statistical process package

The results meet all drawing and specification requirements: Yes No (If "NO" - Explanation Required)

Mold / Cavity / Production Process

Declaration

I hereby affirm that the samples represented by this certification are representative or our parts, have been made to the applicable customer drawings and specifications, and are made from the specified materials on regular production tooling with no operations other than the regular production process. I also certify that documented evidence of such compliance is on file and available for review.

Explanation / Comments

Print Name	Title	Phone No.

Supplier Authorized Person	Date	Fax No.

Part Warrant Disposition:	○ Accepted	○ Dimensional measurements
	○ Interim Approval	
Part Functional Approval:	○ Accepted	○ Waived

Appearance Approval Report

Name of Study : **Exp1**

Abc		
Part Number	**Drawing Number**	**Application (Vehicles)**
Part Name	**Buyer Code** / **E/C Level**	**Application (Vehicles)**
Supplier Name	**Manufacturing Location**	**Supplier Address**

Reason for Submission						
	○	Part Submission Warrant	◉	Special Sample	○	Re-Submission
	○	Pre Texture	○	First Production Shipment	○	Engineering Change

Appearance Evaluation

Supplier Sourcing and Texture Information		Pre-Texture Evaluation		Customer Representative Name and Date	
abc	acb	Correct and Proceed	◉	1	11/26/2004
		Correct and Resubmit	○		
		Approved to Texture	○		

Color Evaluation

Color Suffix	Tristimulus Data					Master Number	Master Date	Material Type	Material Source	Hue				Value		Chroma		Gloss		Metallic Brilliance		Color Shipping Suffix	Part Dispositio
	DL	Da	Db	DE	CMC					Red	Yel	Grn	Blu	Light	Dark	Gray	Clean	High	Low	High	Low		
1	1	1	1	1	1	1	11/26/2004	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Comments

comments

Supp Sign	Phone BNo	11/05/2004	sdfdf	11/26/2004
Supplier Signature	**Phone No.**	**Date**	**Customer Representative Signature**	**Date**

Dimensional Results

Name of Study : **Exp 2**

Supplier	Supplier	**Part Number**	Part Number
Name of Inspection Facility	Name of Inspection Facility	**Part Name**	Part Name

ITEM	DIMENSION/SPECIFICATION	SUPPLIER MEASUREMENT RESULTS	OK	NOT OK
Item	Dimension Spec	Supplier MeasureMent Results		

SIGNATURE	TITLE	DATE
Vinod	Operational Director	12/25/2004

Material Test Result

Name of Study : **Exp 1**

Supplier	Vinodh	**Part Number**	ABC
Name of Laboratory	zdlkj	**Part Name**	sdlfkj

Type of Test	DIMENSION/SPECIFICATION	SUPPLIER MEASUREMENT RESULTS	OK	NOT OK
free	12 x 23 in	1		

SIGNATURE	TITLE	DATE
VVVV	PL	11/26/2004

Performance Test Result

Name of Study : **Exp 1**

Supplier	Supplier	**Part Number**	Part Number
Name of Laboratory	Name of Laboratory	**Part Name**	Part Name

Ref. No.	Requirements	Test Freq.	Qty. Tested	Supplier Test Results and Test Conditions	OK	NOT OK
1	1	1	1	1		

Signature	Title	Date
Vinodh	Product Manager	11/26/2004

Summary