## PRODUCTION PART APPROVAL PROCESS (PPAP)

Submission Checklist

June 21, 1995

The following guideline/checklist shall be used for PPAP level 1-5 submissions. Level 4 is the default level, to be utilized for all submissions unless specifically advised otherwise by Ford. All PPAP submissions should be submitted to Ford Purchasing a minimum of 10 working days prior to the PPAP due date, to allow for review and disposition.

Ford/	2	Supplier	Approval	Part Nu	mber:			
Supplier		Included	Required	Reason for Submission:				
Required			Prior to					
(Y/N)		(Y/N)	PSW	A.	EXTE	RIOR	PSW Level:	
YES YES	-		Submission		1. 2.	Neatly Bound and Tabbed (e.g. Label With:	g. 3-Ring Binder)	
						<ul> <li>a. Supplier Name/Location/U</li> <li>b. Customer Assigned Tracki</li> <li>c. Ford/Supplier Part Number</li> <li>d. Part/Family Description</li> <li>e. Submission Date</li> </ul>	ng Number (if known)	
				B.	INTER	LIOR (PPAP Requirements)		
YES	-				1.	PPAP Warrant (CFG-1001)		
YES YES YES	-					<ul><li>a. Table of Contents</li><li>b. Purpose/Background State</li><li>c. PPAP Checklist</li></ul>	ment	
	_				2.	Appearance Approval Repo	rt (CFG-1002)	
	-				3.	Sample Product Master San	nples (Qty:)	
					4.	Design Records		
	-		YES			<ul><li>a. Engineering Specification</li><li>b. Other</li></ul>		
					5.	<b>Change Documents</b>		
	-		YES			a. SREA (Signed Cover Shee	et Only)	
						b. WERS		
	-		YES YES YES			b1. Alert b2. Concern b3. Notice		
	-					c. Letters Of Agreement (If a	applicable)	
	-		YES YES			c1. Certification of E	Design, Construction & Qualification	
	_				6.	<b>Dimensional Results</b>		
Tabular Summary: Spec Para No., Desc, Spec Limits, No. Samples, Pass-Fail Results, Mean, Std Dev, Min-Max Values, Normality, Histograms, Capability						<ul> <li>a. Tabular Summary Format</li> <li>b. Address Cpks &lt; 1.33 (for S</li> <li>c. Failures: Ford Approved 8</li> <li>d. Ford Plant Approved Pack</li> </ul>	SCs/CCs) BD Reports (as required)	
					7.	Checking Aids		

Part Number: Reason for Sul							
Electrical Tabu		o., Desc. Spec I	imits, No	8.	Test Results  a. Tabular Summary of Reliability Test Results		
Samples, Pass-F Histograms, Cap	ail Results, Mean, Std Dev, I	Min-Max Value	s, Normality,		<ul><li>b. Product Electrical Tabular Summary</li><li>c. Address Cpks &lt; 1.33 (for SCs/CCs)</li><li>d. Failures: Ford Approved 8D Reports (as required)</li></ul>		
				9.	Process Flow Chart (High level to Ford's dock)		
			ints	10.	FMEA (Design/Process)		
		YES YES	"Living" Documents		<ul><li>a. Design (supplier designs only)</li><li>b. Process ("Entire" process flow)</li></ul>		
			ing"	11.	Control Plans		
		YES YES YES	"Liv		a. Prototype (Prototype Process Control & Component DV Test Pl b. Pre-Launch (Component PV Test Plan) c. Production (Production Process Control & IP Test Plans)		
	· ——			12.	Process Performance (Ppk/Cpk)		
					<ul> <li>a. Significant/Critical Processes identified in Control Plan</li> <li>b. Address Ppk/Cpk &lt; 1.67/1.33 (AIAG PPAP Manual)</li> </ul>		
	· -			13.	Measurement System Studies (Gage R&R)		
					<ul><li>a. SC/CC Product/Process Measuring Equipment</li><li>b. Address R&amp;R's &gt; 10% (AIAG MSA Manual)</li></ul>		
				14.	Design Engineering Approval		
		YES YES			<ul><li>a. Product Engineering Approval</li><li>b. Plant Engineering Approval</li></ul>		
Other Require	ements/Comments:						
-							
<u>Initials:</u> Ford	<u>Initials:</u>	<u>Approvers (Pri</u>			e): <u>Date:</u>		
Supplier	Ford PPAP C			hecklist Approver			
~ appner		Supplier DDA			t Approver		
Supplier				oplier PPAP Checklist Approver			
	Supplier PPAP				ion Approver		