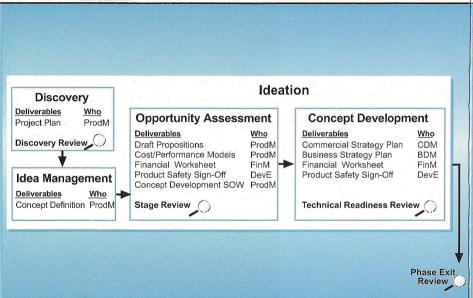
Ideation

Proposal

ProdE



Targeted **Business Plan Business Planning**

Deliverables Who

Targeted Business Plan MaDir Customer SOR/RFQ MaDir Carryover & Core Product EnaDir Portfolio Content %

Program Requirements Deliverables Who

Product Safety Sign-Off Craftsmanship Sign-Off ProdE PLUS Timeline ProaM ProaM Issues List SDT List MaDir Quality Objectives & AQE Roadmap AFM

Financial Roadmap Financial 8 Panel Chart AFM **Functional Reports** FuncMars

SOW Development

Product Definition Deliverables Who Design Theme Sketches & Model StudM

Specifications/Functional Reg'ts ProdE PDfSS Scorecard EngMg Eng. Design (CAD Models) ProdE Bill of Material ProdE Critical Suppliers Selected Buver Create Critical SSOWs ProaM

Process Definition

AME Process Flow Diagram Manufacturing Site Location AME Plant Lavout AME Equipment, Fixture & Tooling List AME Packaging List PkaE

Quote Preparation

Program Budget MgDir In/Outbound Freight Costs MatIA Product Cost Summary AFM Program Business Plan MgDir Quote Package MgDir

Craftsmanship, Engineering

SOW to Customer 4 Deliverables Who ProaM SOW Pkg. Completed

SOW Pkg. Submitted MgDir Quoted Product Release ProdE (BOM, CAD Models, Drawings)

Phase Exit Review (

Customer Master Model Review

& Manufacturing Review Program Reviews

Design

Program Requirements

Who Deliverables Product Safety Sign-Off ProdE Craftsmanship Sign-Off ProdE PLUS Timeline ProgM ProgM Issues List Parts Matrix ProgM SDT List ProaM Quality Objectives AQE & Roadmap AQE Supplier AQP Report AFM Financial Roadmap

Product Design Deliverables Who PDfSS Scorecard ProdE DFMEA ProdE DFM&A AME Design Verification Plan ProdE ProdE Engineering Dev. Testing CAD Models/Drawings ProdE Surface Release StudM **Process Design**

Process Flow Diagram AME Plant Layout AME AME PFMFA AME PEIL Prototype Control Plan AQE Measurement System Analysis AQE Equipt, Fixtures & Tooling Reg'ts AME Packaging Regits PkgE

Supplier Selection

Create SSOWs ProaM All Suppliers Selected Buyer & SSOWs Signed Supplier Kick-Off Meeting AQE

Craftsmanship, Engineering & Manufacturing Review **Customer Master** Sample Review

Product

Process

Deliverables

ECR/ECO's & BOM

Product Drawings

Master Sample

Tool Drawings

Procurement

DV Purchase Orders

Fixtures & Tooling)

Equipment & Fixture Rea'ts

(Components, Equipment,



Design Verification

Product Deliverables Who Procure DV Buver Components

Process Procure DV Buver Equipment. Fixtures & Tooling Pre-Launch

Control Plan

Deliverables Who DV Assemblies ProgM Build Issues List AME

DV Build

Design Verification

Product Verfication Deliverables Who **DV** Testing TestE DV Test Approval EngM PDfSS Scorecard ProdE

Production Release

Deliverables Who ECR/ECO's & BOM ProdE ProdE Service Parts Release **Product Drawings** ProdE Master Sample ProdE

Process Tool Drawings

Product

AME Equipment, Fixture & AME Gage Specification

Packaging Specification PkgE

Procurement

Production Purch. Order Buyer (Components, Equipment, Tooling, Fixtures, Gages & Packaging)

Phase Exit

Review

Craftsmanship, Engineering

Customer Master

Deliverables

Program Requirements

ProdE Product Safety Sign-Off ProdE Craftsmanship Sign-Off **PLUS Timeline** ProaM Issues List ProaM SDT List Parts Matrix Quality Objectives & Roadmap Supplier AQP Report Financial Roadmap AFM Financial 8 Panel Chart Customer Tool Authorization Material Sign-Off Functional Reports

Review C

Program Reviews

Program Reviews

Financial 8 Panel Chart AFM

FuncMars

Approved CAR & TA

Functional Reports

Phase Exit

DV Release

Who

ProdE

ProdE

ProdE

AME

AME

Buyer

ProgM ProaM AQE AQE

Who

AFM MgDir

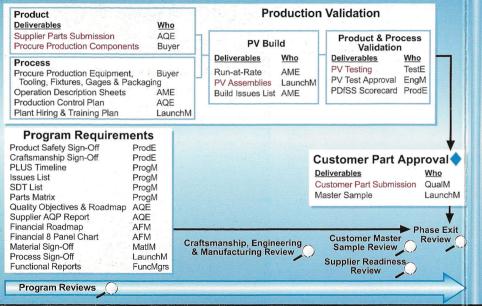
MatIM FuncMars

& Manufacturing Review

Sample Review

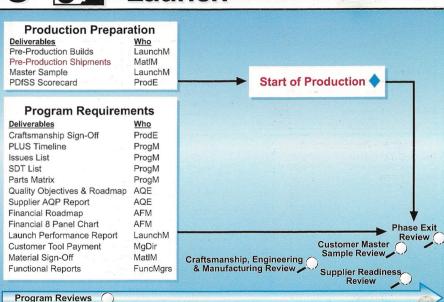
4

Production Validation



5

Launch



Phase Program Management Deliverables				
Who				
ProaM				
ProgM				
ProgM				
	M PLUS Reviews Procedure, Craftsmanship Sign-Off Form			
Lauriciii	Engineering, Manufacturing & Quality Report Forms			
ProaM				
riogivi	PLUS Reviews Procedure			
	Business Plan Procedure			
MgDir	Business Plan Form			
MgDir	Customer Form and/or Format			
	SOW Development Procedure			
MgDir	Program Budget Form			
ProgM	Supplier Statement of Work Form (POS)			
MgĎir	Business Plan Form			
MgDir				
ProgM	Statement of Work Form			
MgĎir	Statement of Work Form / Quote Package			
ProgM	PLUS Timeline Form			
ProgM	Issues List Form			
MgĎir	SDT List Form			
ProgM	SDT List Form			
s ProgM	Supplier Statement of Work Form (POS)			
	Design Verification Procedure			
ProgM	Parts Matrix Form			
MgĎir				
ProgM				
	5 1 " 1/" 5			
	Production Validation Procedure			
	M New Facility Launch Workbook			
Launch				
Launch	M PSO Form			
Launch				
Launchi				
Laurah	Customer Part Approval Procedure M Regional / Local Form			
Launchi	M Launch Performance Report Form			
	Regional / Local Form			
	Launch			

Phase Manufacturing & Material Deliverables					Quality Deliverables			
1 2 3 4 5	Deliverables	Who	Level II & III Documents	Phase 1 2 3 4 5	Deliverables	Who	Level II & III Documents	
0,00	Craftsmanship, Eng. & Mfg. Review	EngM	PLUS Reviews Procedure,		Craftsmanship, Eng. & Mfg. Review	EngM	PLUS Reviews Procedure, Eng. Report Form,	
مرور	Craftsmanship, Eng. & Mfg. Review	LaunchM	Engineering, Manufacturing & Quality Report Forms PLUS Reviews Procedure, Craftsmanship Sign-Off, Engineering, Manufacturing & Quality Report Forms	200	and the second s	LaunchM	Mfg. Report Form, Quality Report Form PLUS Reviews Procedure, Eng. Report Form, Mfg. Report Form, Quality Report Form	
	◆ Targeted Business Plan SOW Development Process Flow Diagram Manufacturing Site Location Plant Layout Equipment, Fixtures & Tooling List Packaging List In/Outbound Freight Cost SOW to Customer	AME AME AME AME PkgE MatIM	SOW Development Procedure Regional / Local Form Per MEQ Standards New Plant/Line Launch Procedure (MOS) Regional / Local Form Regional / Local Form	D D D D D	 Targeted Business Plan SOW Development Quality Objectives & Roadmap Supplier AQP Status SOW to Customer 	AQE AQE	SOW Development Procedure Quality Objectives & Roadmap Form Supplier AQP Report	
D / / / / D / / / D	Product Design DFM&A Surface Release Process Design PFMEA PEIL Equipment, Fixtures & Tooling Reg'ts	AME AME AME AME	Product Design Procedure Design for Manufacturing & Assembly Form Process Design Procedure PFMEA Form PEIL Form	D / D /	Measurement System Analysis (MSA) Supplier Kick-Off Meeting	AQE AQE AQE	Process Design Procedure Control Plan Form Measurement Systems Analysis Form (MOS) Supplier AQE Kick-Off Meeting Work Instruction	
D	Packaging Requirements Supplier Kick-Off Meeting DV Release Tool Drawings	PkgE AME	Tool Drawings per Drawing Standards	D✓	 DV Release Design Verification Pre-Launch Control Plan 	AQE	Design Verification Procedure Control Plan Form	
D DD √	Equipment & Fixture Requirements Design Verification Build Issues List Production Release	AME AME	Regional / Local Form Design Verification Procedure Issues List Form Tool Drawings per Drawing Standards Technical Specification Form Regional / Local Form MSO Form Production Validation Procedure	Y D D Y Y Y	Supplier Part Submission Production Control Plan Capability Studies Measurement System Analysis (MSA)	AQE AQE AQE AQE AQE	Production Validation Procedure Supplier PSO Form Supplier Part Submission Work Instruction Control Plan Form Regional / Local / Customer Forms Measurement Systems Analysis Form (MOS)	
* D *	Equipment Qualification Packaging Qualification Operation Description Sheets Run-at-Rate Customer Part Approval Pre-Production Shipments	AME PkgE AME AME MatIM	Equipment Qualification Form Packaging Qualification Form Operation Description Sheet Work Instructions (MOS) Customer or Regional / Local Form Regional / Local Form	D	Customer Part Approval Customer Part Submission Customer Part Submission	QualM	Customer Part Approval Procedure Per Customer Requirements	

Dha	Finance Deliverables								
	Phase 2 3 4 5		Deliverables	Who	Level II & III Documents				
			Business Planning		Business Planning Procedure				
D D	D	D	Financial 8 Panel Chart	AFM	Financial 8 Panel Chart Form				
			SOW Development		SOW Development Procedure				
11	1	1	Product Cost Summary	AFM	Product Cost Summary Form				
D D	D	D	Financial Roadmap	AFM	Financial Roadmap Form				
D 🗸	1	✓	Approved CAR & TA	AFM	Appropriation Request Procedure (LOS), CAR Form (LOS)				
11	1	1	IRR Report	AFM	Regional/Local				
2 3	Purchasing Deliverables 3 4 5 Deliverables Who Level & III Documents								
			Supplier Selection		Supplier Selection Procedure (POS)				
			Critical Suppliers Selected	Buyer	Sourcing Recommendation Form (POS)				
D			All Suppliers Selected	Buyer	Sourcing Recommendation Form (POS)				
D			Signed Statement of Works (SSOW)	Buyer	Supplier Statement of Work Form (POS)				
			Supplier Kick-Off Meeting						
D			DV Purchase Orders	Buyer					
D			Procure DV Components	Buyer	Purchase Auth. & Requisition Procedure (POS)				
D			Procure DV Equipment, Fixtures & Tooling Production Purchase Orders	Buyer	Purchase Auth. & Requisition Procedure (POS)				
U	D		Production Purchase Orders Procure Production Components	Buyer	Durch and Auth & Deministra Demonstrate (BOS)				
	D		Procure Production Components Procure Production Equipment, Tooling, Fixtures, Gages, and Packaging	Buyer Buyer	Purchase Auth. & Requisition Procedure (POS) Purchase Auth. & Requisition Procedure (POS)				

PLUS Reviews

PLUS Reviews								
Review	Purpose	Frequency	Documents	Conducted By				
Discovery Review (Phase 0)	Review the project findings for future development / sponsorship.	At the end of Discovery	Discovery Review Form	Product Manage or Project Spons				
Stage Review (Phase 0)	Decide whether to proceed to Concept Development or postpone the project.	At the end of Opportunity Assessment	Stage Review Form	Product Manager or Project Spons				
Technical Readiness Rvw (Phase 0)	Obtain approval for technical integrity and viability of product leaving Concept Development.	At the end of Concept Development	Technical Readiness Review Form	Development Engineer				
Phase 0 Exit Review	Decide whether to proceed to Phase 1(Proposal), revise or postpone the project.	At the end of Concept Development (after Tech. Readiness Review)	Phase 0 Exit Review Form	Product Manager				
Customer Master Model / Sample Reviews (Phase 1-5)	Ensure the Master Model/Sample meets aesthetic value and Customer craftsmanship objectives.	During Phases 1-5 prior to Phase Exit Review	Craftsmanship Sign-Off & Master Model/Sample	Scheduled by: Program Manage Conducted by: Studio Manager				
Supplier Readiness Rvws (Phase 4-5)	Verify supplier readiness by visiting 3-5 critical supplier plants (internal and/or external suppliers)	Phase 4-5. At a minimum once per Phase prior to the Phase Exit.	Supplier AQP Workbook form, Supplier Timeline, Supplier Statement of Work (SSOW)	Program Manage				
Program Reviews (Phase 1-5)	Review the current status of the program.	Monthly in Phases 1-5	Phase Report Form and: • Engineering Report • Mfg. Report • Quality Report • Finance Report	Program Manage				
Phase Exit Reviews (Phase 1-5)	Review current phase PLUS deliverables, Functional Reports, Issues List and Lessons Learned.	Within two weeks of the Phase Exit date on the Program Timeline	 Purchasing Report Prod. Safety Sign-Off Craftsmanship Sign-Off Fin. 8 Panel Chart 	Program Manage				
Craftsmanship, Engineering & Manufacturing Reviews (Phase 1-5)	Review the current product design and manufacturing process to meet Customer and AG requirements. Conduct an internal AG Craftsmanship Review on a Master Model/Sample.	DV Release Production Release Count Part Submission	Engineering Report Mfg. Report Quality Report Craftsmanship Sign-Off Product Safety Sign-Off	Engineering Manager				