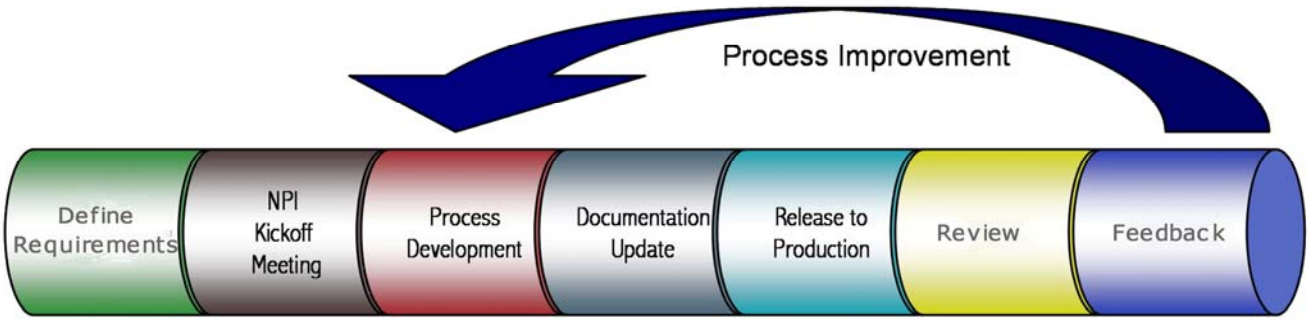
New Product Introduction Process



Define Requirements

Documentation Required From Customer
Bill of Materials (BOM)
Assembly Drawing
Fabrication Drawing/Drill Schedule
Gerber Data
Schematic
Test Specification/Test Plan
CAD Data
Component Software
Sample Product (if available)

Documentation Generated by RiverSide Electronics
Internal Bill of Materials
Bill of Operations (Routing)
Manufacturing Instructions
Reference Drawing
Panel Drawing
Quality Specifications

NPI Kick-Off Meeting

Includes Customer Team members & Production representatives
Review Customer Expectations:
- ♦ Delivery Dates
- ♦ Special Quality/Process Requirements

Establish completion dates for process development activities

Process Development

Manufacturing Engineer establishes the following:
- ♦ Bill of Operations (Routing)
- ♦ Manufacturing Instructions
- ♦ Reference Drawings

Create any special processes (process flowchart, FMEA, Quality Plan, Sample Plan, etc.)

Establish first article inspection requirements
Define shipping materials needed
Fabricate necessary tooling
Create all machine programs
Define training requirements for special processes

Documentation Update

Verify that any final Bill of Material and/or Bill of Operation changes are made
Verify all information needed for build is available
Verify all previous steps of NPI process complete

Release of Work Order to Production

Release NPI Work Order to Production
NPI work order processed per specified instructions and shipped to Customer

Review/Wrap Meeting

Review NPI work order successes
Highlight NPI work order issues
Review Quality Data
Review Documentation Updates
Propose required changes

General build review
Review Bill of Material
Review documentation redlines
Design for Manufacturability feedback
Design for Testability feedback

Feedback/Complete Updates and Close NPI

Update Bill of Materials/Bill of Operations
Update Manufacturing Instructions & Reference Drawings
Verify Customer Satisfaction

Review Billing
Close NPI work order