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
Verify Customer Satisfaction