DDP Level 1 Optimized Process- Design

Concept → Define → **Design** → Validate → Produce

Design B/L →

New or Mod →

- Product Modeled
- Mfg Process Modeled
- Tooling Review
- Define Testing

→ Update Cost, Schedules, & Financials → First Design Review → Pass? **Yes** → CER Approved **Yes**

Pass? **No** → (A)

CER Approved **No** → (A)

- Product Detailed
- Mfg. Equipment Detailed
- Tooling Designed
- Preliminary Testing
- Marketing Campaign
- Patent Application

→ Prototype / Quote → Update Cost, Schedules, & Financials → Second Design Review → Pass? **Yes**

Pass? **No** → (A)

- Build Mfg Process
- Build Tooling
- BOM & Routings in System
- QC Process Define
- Schedule Sample Run

→ Sample Run → FAI **Fail** → Fix Issues

FAI **Pass** → Product Testing → Pass? **Pass** → Put-to Validate Meeting

Pass? **No** → (A)

Put-to Validate Meeting → Pass? **Yes** → Update Design Documents → Update Database → **Validate B/L**

Pass? **No** → (A)

First Pass Yield (arrow)

(A) → Rev? → Back To Design? → Back To Define

Rev? → Kill → Feedback → Post-Mortem → **Killed Idea DB**

Cycle Time = AIPs/Line Speed

Rev: 7/02/06

Dunbarton CORPORATION

Project: _____ **Tracking No:** _____ **Date:** _____

1. Which tests should be performed prior to completion of the design?

_____

2. List each test to be performed including pass / fail criteria prior to production.

_____

Completed by _____ **Date:** _____

First Design Review

Project: _____ Tracking No: _____ Date: _____

Meeting to be attended by Engineering, Manufacturing, & Marketing/Sales

1. Does design meet product cost target?   Yes ☐   No ☐

   If no, explain why _____

2. Does design meet capital expenditure target?   Yes ☐   No ☐

   If no, explain why _____

3. Does design meet functional requirements?   Yes ☐   No ☐

   Explain exceptions: _____

4. Does design meet scheduling requirements?   Yes ☐   No ☐

   Explain exceptions: _____

5. Are all noted issues resolved?   Yes ☐   No ☐

   If no, explain why _____

6. Should the product be further optimized?   Yes ☐   No ☐

   If yes, explain why _____

7. Should the process be further optimized?   Yes ☐   No ☐

   If yes, explain why _____

8. Does product meet all of Marketing's criteria, as given in Define?   Yes ☐   No ☐

   If no, will project continue? _____

9. Were new Issues added to the "Issues List"?   Yes ☐   No ☐

10. Does Design Pass or Fail?   Pass ☐   Fail ☐

    Explain any exceptions or criteria for failure _____

Completed by _____ Date: _____

Design Development Process

Dunbarton
CORPORATION

Marketing Introduction Campaign

Project: _____ **Tracking No:** _____ **Date:** _____

1. Remaining time until product is ready for shipment to customers? _____

2. Media to utilize for introduction of product to potential customers.

   Direct to customer?   Yes ☐   No ☐
   How? _____

   Print?   Yes ☐   No ☐
   How? _____

   Internet?   Yes ☐   No ☐
   How? _____

3. Are samples needed for showing product to potential
   customers?   Yes ☐   No ☐
   Mini _____ Full Size _____

4. Are there any architectural specifications to be created or
   updated?   Yes ☐   No ☐
   Responsible person or agency _____
   Date to approach architects _____

5. Are there any relevant trade shows requiring product
   samples?   Yes ☐   No ☐
   If yes, when and where? _____
   Show
   Needs: Literature?   Yes ☐   No ☐   Samples?   Yes ☐   No ☐
   Other? _____

6. Please list the dates below for each item needed.
   Literature _____ Instructions _____
   Specifications _____ Testing Data _____

7. Specials to determine initial production loads on the factory.
   Should we offer any discounts for customers' pre-ordering initial order?
   Yes ☐   No ☐   If yes, what type and how much? _____

Completed by _____ **Date:** _____

Design Development Process
Rev. 7/02/06

Second Design Review

Project: _____ Tracking No: _____ Date: _____

Meeting to be attended by Engineering, Finance, Manufacturing and Marketing/Sales

1. Does design meet financial target?　　　　　　Yes ☐　No ☐

   Signature of Finance required
   _____

2. Does design meet marketing objective?　　　　Yes ☐　No ☐

   Signature of Marketing required
   _____

3. Is design and process acceptable to manufacturing?　Yes ☐　No ☐
   If no, explain why

   _____

4. Should the product be further optimized?　　　Yes ☐　No ☐
   If yes, explain why

   _____

5. Should the process be further optimized?　　　Yes ☐　No ☐
   If yes, explain why

   _____

6. New Issues　　　　　　　　　　　　　　　　Yes ☐　No ☐

   _____

7. Is Design approved for Capital Expenditure?

   Does Design Pass or Fail? _____

Explain any exceptions or criteria for failure.

_____

Completed by _____ Date: _____

Put To Validate (PTD) Meeting (Chaired by VP of Sales/Marketing)

Project: _____ **Tracking No:** _____ **Date:** _____

Required Attendees:

President _____   Dir. Of Technology _____

VP Sales and Mktg _____   VP Operations _____

CFO _____   Product Manager _____

Sales Manager _____

Agenda and Required Documents

VP Sales and Marketing Document Review:

Requirements Document	Yes ☐	No ☐		
Strategic Filter	Yes ☐	No ☐		
Market Analysis	Yes ☐	No ☐		
Competitive and Risk Analysis	Yes ☐	No ☐		
Financial Analysis	Yes ☐	No ☐		

Director of Technology Review of Current Backlog Status and Priority:

Define Backlog	Yes ☐	No ☐
Prioritized Backlog based on FOM	Yes ☐	No ☐

VP Sales and Marketing:

Meeting 3Ws	Yes ☐	No ☐
Cycle Time and First Pass Yield Data Capture	Yes ☐	No ☐

Recommendation   Pass ☐   Fail ☐
Estimated Start
Validate Date: _____ **Estimated Produce Date:** _____

VP Sales/ Marketing: **Initial below and submit a copy to Project Manager:**

I accept the project and have the information required to move forward. _____ Init.

I do not have the required information to move Forward. Explain below _____ Init.

I conditionally have the required information to move Forward. Explain below _____ Init

Explanation of decision to conditionally or not move forward