







## - Engineering Specifications Project: \_\_\_\_\_ Tracking No: Date: 1. Is a sketch, drawing or 3D model attached? Yes No Reference Drawing: 2. Was a mock-up built? Yes No Theoretical costing sheet to be attached. Costing sheet to be in Engineering's 3. standardized format (Excel). Does costing sheet include the following? **BOM** Yes No **Material Cost** Yes No **Labor Cost** Yes No Capital Cost Yes No Cost for Special Handling Yes No 4. List consideration required for the following: Design for Manufacturability Design for Serviceability Design for Installation 5. Attach Issues List 6. Attach Gantt Chart / Project Schedule Completed by Date: \_\_\_\_

Dunbarton. Cost Estimate

Define

Date:

Tracking Number:

Project:

Notes Andification Capital Regirements
New Jigs & Die
Equipment Fixtures Addificati 0 **Total Capital Cost** Equipment 0 0.000 0.000 Total Labor 0.000 0.000 0.000 0.000 0.00 0.00 BDN 0.00 0.00 0.00 \$0 Material Units/hr (Man-Hrs) Labor Rate Labor cost Fringes 30% 30% 30% 30% 30% 0.000 0.000 Development Cost + Capital: 0.000 0.000 0.000 0.000 UPMH #DIV/01 0.000 **Product Costing** 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000 0.000 0.000 Scrap, 5% Freight In at 5% Material, Labor, & Burden: Development Cost: Research Supplies: Each People ΔT Per Hand Costing Total BOM/Description

Design Development Process Rev. 7/02/06 Proprietary © 2006 \* Dunbarton Corporation \* All Rights Reserved

Engineering Time: Other:





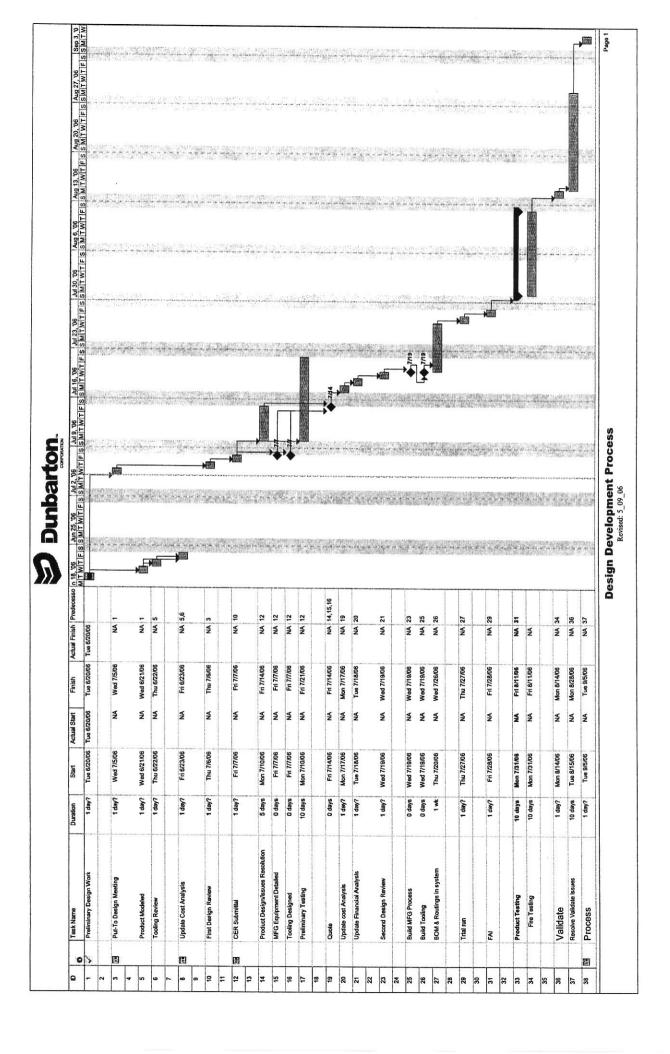
	Issues List	
Project:	Tracking No:	Date:
1		
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5		
6		
7	-	
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10		
Completed by _		Date:



		Feasibility			- K - K - K	
Proj	ect: T	racking No:		ate:		
1.	Do we have the manufacturing product?  If No, why?	ng capability to produce	Yes	s 🗌	No	
2.	1	onal capacity product requirements				
	3					
3.	Will additional manufacturing		Yes		No	
4.	Do we have the skill and tech produce? If No, why?	inology to design and	Yes		No	
5.	Any special environmental or If Yes, what?	safety requirements?	Yes		No	
6. 7.	Should this be a <b>Make</b> or <b>Buy</b> Overall Feasibility Assessmenthigh)	<b>y</b> item? nt? (1,2,3,4) (1 = low, 4 =				
Com	pleted by		Date: _			



		Resource Plan	
Proje	ct:	Tracking No:	Date:
Design			
1.	Product Engineering Hours		
2.	Tooling Engineering Hours		
3.	Prototype Testing Hours		
4.	Machine Design Hours		
5.	Industrial Engineering Hours		
6.	Packaging Engineering Hour	s	
7.	Patent Hours		
Build			
1.	Tooling Build Hours		
2.	Machine Build Hours		
3.	Product Testing Hours		
Imple	ment		
1.	Engineering Hours		
2.	Programming Hours		
3.	Equipment Set-Up Hours	<u></u>	
4.	Manufacturing Hours		
	List Equipment Needed		,
	List People Needed		
Comp	leted by	Date:	





## **Marketing Analysis with Key Customers**

Proje	ct:	Tracking No:	Date:			
1.	Key	/ customer or prospect				
	a.	Are customers known?	Yes No			
	b.	If customers are known, complete "If Yes" section.				
	C.	Not known, complete "If No" section".				
2.	ls tl	ne key customer a current customer? (see below)	Yes 🗌 No 🗌			
3.	If Y					
	a.	nbarton's existing				
	b.	What is the % of current sales from Dunbarton versus the potential sales? (sales we could gain)				
	C.	What is the % of current sales from Dunbarton risking (sales transferred to new product)	cannibalization?			
	mproved product is not					
4.	If NO:					
	a. From who does the potential customer currently purchase this or similar products?					
b. How much of this product or similar products does this potential cust purchase?						
	c.	What is the % of these existing sales to other companies we could acquire by offering this product for sale?				
_	-2					
Con	ıple	ted by Da	ate:			



## Put to Design (PTDS) Meeting (chaired by Director of Technology)

Project:	Tracking No:		Da	Date:			
Required Attendees:							
Dir. of Technology	VP Sales an	d Mktg					
CEO	Project Man		*				
Agend	la and Required Docu	ments					
VP Sales and Marketing D	ocument Review:						
Updated Market Analysis	ocament iteview.	Yes	П	No			
Updated Competitive and Risk	Analysis	Yes		No			
		100		140	ш		
CFO Review:							
Updated Financial Analysis		Yes		No			
Director of Technology Re	view of Current Backlog	Status	and	Priorit	y:		
Product Specification		Yes		No			
Design Backlog		Yes		No			
Prioritized Backlog based on u	pdated FOM	Yes		No			
General Discussion							
Review updated Market and Fi	nancial Analysis						
Review Product Specification							
Review anticipated completion dates against the Market Requirement							
Issues outstanding							
Recommendation		Pass		Fail			
Estimated Start	Estimated P	ilot					
Design Date:	Run date:						
Director of Technology: In	itial below and submit a	copy to	o Pro	ject Ma	anage	r.	
I accept the project and have the	information required to move for	ward.			Ir	nit.	
I do not have the required informa	tion to move Forward. Explain bel	ow			lr	nit.	
I conditionally have the required information to move Forward. Explain below					Ir	nit	
Explanation of decision to co	anditionally or not mayo fo	rward					