No-Bake Foundry System Specification Worksheet

THE BASICS NOTE: Most fields are required. If no answer, please enter N/A. Company Name: ___ Contact: ___ _____ City:_____ State / Province:_____ _____ Country:_____ E-Mail:____ Telephone: ___ __ Fax:__ MOLDING Size of Area for Molding (Site drawing would be helpful)? __ Half Mold Size (cope or drag) First (2) Values should be the overall minimum and maximum size to be made in this area. ____ x Width___ _ x Heiaht __ __ x Height __ Next (2) Values should be the typical minimum and maximum size to be made in this area that will cover 80-90% of the work for the area. In many jobbing foundries, there are often odd large or small sizes that are run very rarely. These values should be for the sizes that are run regularly and are NOT the rare items that are encompassed in above. __ x Width__ _ x Width__ _ x Height __ Maximum - Length ___ Average Size to be used for Molds/Hour Calculations __ x Width___ __ x Height_ (If left blank, we will assume halfway between the Typical Minimum and Typical Maximum) Estimated Maximum Half Mold Weight?_____ Estimated Average Half Mold Weight?___ Estimated Maximum Closed Mold Weight?_____lbs. Estimated Average Closed Mold Weight?____ Number of Mold/Core Boxes to Run Simultaneously on the Loop?— Desired Full Mold Production Rate per Hour? (We will assume 2 mold halves per full mold unless otherwise specified.) Estimated Strip Time?_ Level of Automation? ()Full () Semi () Manual In-Flask Cope/Drag with Separate Pattern Plates In-Flask Dual Sided Matchplate Patterns Flaskless Cope/Drag Boxes 9. Bottom Board Type? ○ Wood Plastic Aluminum Steel () Iron Other:_ () Wood Plastic () Iron Other: __ Pattern Mount Board Type? Aluminum Steel 10. ○ Wood O Plastic ○ Aluminum ○ Iron 11. Pattern/Board Material? Steel Other:_ How Many Shifts Will the Molding System Run?___ Additional Molds/Hour Capacity to Design into the System?___ Do you require the following? Sand Heater Sand Cooler Primary Sand All Sands

MIXER													
1.	Type(s) of Sand to be Used and Grain Size (e.g. Silica, Reclaim, etc.)?												
2.	Need for Facing or I	○ Yes	○ No										
3.	Binder System to Us												
4.	Powder Feeder Req	uired?		() Yes	○ No								
	If Yes, what additive		<u></u>										
М	MOLD HANDLING												
M C	Old Wash Water	Alcohol											
2.	O Flow-coat	Spray	Swab										
3.	○ Mold Handler												
4.	Drying Oven?	Gas	Rolling Device Electric Microwave										
5.	Preheat Required be	efore Mold Wash Applic	ation?	○ Yes	○ No								
Мо	Mold Closing												
1.	Mold Handler Requi If yes:	red? Scissor Style	○ Gantry Style	○ Yes	○ No								
2.	Minimum Number o	f Cores Per Mold?											
3.	3. Maximum Number of Cores Per Mold?												
4.	Average Number of Cores Per Mold?												
5.	Current Average Time for Core Placement?												
Ро	uring												
1.	Primary Metal Poure	ed?	Maximum Casting Weight:	Average Casting Weight:_									
2.	Type of Castings Produced?												
3.	Is Separation of Allo	y or Heat Required?		○ Yes	○ No								
4.	Is Pouring Continua	or Batch-Poured?	○ Continual ○ Batch										
5.	Estimated Number of Molds Staged for Pouring?												
6.	Conveyor Pourin	g Floor Pouring											
7.	Average Cooling Time per Mold?												
8.	Is There Sufficient Pouring Capacity to Match Above Molding Requirements? Yes												
9.	Is Mold Clamping Re	equired for Pouring?	○ Yes	○ No									

RECLAMATION												
1.	Shakeout Method?	Shakeout Deck	○ Manual or	n Floor (or Other:							
2.	How Many Shifts will	the Reclamation System	Run?									
3.	•	and Temperature at Shak										
4.		·	. ,					○ No				
5.	,	·					○ Yes	○ No				
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6.	Mechanically Reclaim	ned Sand Will be fed to:	Mixer	() Thermal F	Reclaimer	O Both Mixer a	and Thermal Re	eciaimer				
7.	Does a Thermal Recla	aimer already exist in fac	ility?				○ Yes	○ No				
	If no, are there any plans to add one in the future?							○ No				