Ge	neral description of system:
1.	Illustrate system with a drawing, include all equipment, sensors, location of load cells, location of controller, etc. (Draw on back of page)
2.	What type of industry is end user in? What do they process or produce?
Ty]	pe of ingredients, liquids or solids?
If s	system is a retrofit application:
1.	Type and condition of equipment:
2.	Operation of existing equipment, including manual controls:
3.	Detail any operational shortcoming with existing equipment:
4.	Any existing schematics or drawings?
5.	List strong points of existing system.
[fo	vironment; (indoor/outdoor/washdown/wet/dry/temperature range r indicator and load cells] corrosive/hazardous area: If hazardous area, what Class, Division, and Group:
2.	What type of solution is desired? IS XP Purged? If purged, is instrument air available?
3.	Type of hazardous material:



▼ Draw out or attach drawing of system.



Type of material. Is it affected by temperature/humidity?	
How is material moved, transported and handled; i.e., conveyors, chibrators? Etc.	
. Give dimensional, speed, voltage, and size and weight specification of handling equipment;	
Type of controls: Analog 0-10 VDC or 4-20 MA; VFD's-single/multiligital-AC/DC, etc.?	
Type of sensors: pressure transducers, thermocouple, moisture, etc.	
Special timers or cycles: mixers, PID loops, vibrators, blenders, depo	endent cycles, etc
Size and type of valves and gates: electric, pneumatic, hydraulic, mo	torized, others?
lle: Type: platform, vessel, others (how many?)	
Type: platform, vessel, others (how many?)	
Type: platform, vessel, others (how many?) Material of scale: tool steel, stainless steel, hardware, etc.	



C	Control Requirements:		
•	Power requirements for system? (i.e. 110 volt, 220 volt, 24 volt etc.)		
•	Are they able to supply a clean source for the electrics?		
•	How many scales: RS-232, Remote I/O, and analog output, other communication methods?		
•	How many and type of analog inputs: type and resolution, etc.?		
•	How many and type of analog outputs: type and resolution, etc.?		
•	How many digital control inputs? (Proximity switches, bindicators, photoeyes, loop detectors) Operating voltage?		
•	How many digital control outputs? (Gates, valves, conveyors, augers, motors, vibrators) Operating voltage?		
•	How many and type of special inputs: servo, high speed counters, etc.?		
•	How many and type of communication outputs: RS-232, RS-485, ethernet, PLC interface, computer interface? Distance of communication runs?		
•	How many alarm outputs? Audio, pilot lamp, alpha-numeric?		
•	Hazardous environment hook-ups? Direct, barriers, remote?		
•	Number of ingredients?		
•	Number of formulas?		
•	Number of formula components?		
•	Operator interface and remote displays		



Operator Interface:

. (Give example of prompting and run screens.
2.]	Limited access: Password, supervisor keyswitch.
3.]	How many and type of manual overrides? (List all manual controls needed)
-	eral sequence of operations of new equipment: (Be specific)
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Data Collection: Printing: What type of printing? Ticket, tape, label, page?_____ 1. Formatting needed? _____ 2. Bar-code? Type of bar-code? (Send in samples) What reports are needed? 1. List data and format associated with each report generated. 2. Report accuracy (Number of decimal places) Computer interface: _____ 1. Type of program: information-data gathering, interactive, etc. _____ 2. Interaction between computer and controller. 3. Type of computer and communications protocol. _____ 4. Type of file and format data to be sent to. Scanners, bar-code readers, RF readers/transmitters, etc?_____ Data storage: Is any data stored longterm? (after a print out, ticket, or lable is generated) _____ 1. If yes, what data fields need storage for each record? 2. How many records must be maintained? 3. How are records cleared from database? Individualy or all at once?



Other System Considerations:				
•	Value of materials:			
•	What future expansion of system is being planned for? Please explain.			
•	Cost of down time			
	Run time: 24 hours/day, 7 days/week, etc.:			
	Number of operators:			
•	Turnover of operators:			
•	Turnover of maintenance personnel:			
•	Maintenance department technical skill level:			
•	Recommended spare parts inventory:			
•	Amount and type of fail-safe/back-up required:			
•	Documentation required:			
•	Language requirements:			



Use this page for notes, diagrams, drawings, which will assist you in defining the best system for this application.

