Requirements Analysis Worksheet

Project Name:	Project Reference/ID No.:	Preparer's Name:	Preparer's Signature:
Customer:	Customer Contact:	Contact Phone No.:	Date Prepared:

	Sta	-	uirements changing even as the product is being produced?)	
	a. Are the requirements stable? If "no," what is the effect on the system?			
		Quality		
		Functionality	у 🗆	
		Schedule		
		Integration		
		Design		
		Testing		
	b.	Are the external in	nterfaces changing?	
	Completeness (Are requirements missing or incompletely specified?)			
	a.	Are there any "to l	be determined" issues in the specification?	
	b.		nents you know should be in the specification but aren't? If "yes," will you be equirements into the system?	
	c.		have unwritten requirements or expectations? way to capture these requirements?	
	d.	Are the external in	nterfaces completely defined?	
	Cla	arity (Are requiren	nents unclear or in need of interpretation?)	
	a.	If "no," are the an	anderstand the requirements as written? mbiguities being resolved satisfactorily? any ambiguities or problems of interpretation?	
dc	l Con	nments Here:	7 0 1	

a. Are there any requirements that may not specify what the customer really wants? If "yes," how are you resolving this?				
Add Comments Here:				
b. Do you and the customer understand the same thing by the requirements? If "yes," is there a process by which to determine this?				
Add Comments Here:				
c. How do you validate the requirements?				
Prototyping				
Analysis				
Simulations				
5. Feasibility (Are requirements infeasible from an analytical point of view?)				
a. Are there any requirements that are technically difficult to implement? If "yes," what are they?				
Add Comments Here:				
If "yes," why are they difficult to implement?				
Add Comments Here:				
Add Comments Here:				
Add Comments Here: If "no," were feasibility studies done for these requirements?				
Add Comments Here: If "no," were feasibility studies done for these requirements? If "yes," how confident are you of the assumptions made in the studies?				
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Validity (Will the requirements lead to the product the customer has in mind?)

4.

6.		Precedent (Do requirements specify something never done before, or that your company has not done before?)				
	a.	Are there any state-of-the	e-art requirements?			
		Technologies □				
		Methods				
		Languages				
		Hardware □				
			new to you? m have sufficient knowledge in these areas? or acquiring knowledge in these areas?			
7.	Scale (Do requirements specify a product larger, more complex, or requiring a larger organization than in the experience of the company?)					
	a.	,	omething of this size and complexity before?			
o	b.	•	arger organization than usual?			
8.	Performance (Are there stringent response time or throughput requirements?) a. Are there any problems with performance?					
		Throughput				
		0.1	onous real-time events □			
		Real-time response				
		•				
		Recovery timelines				
		Response time				
	,	-	contention, or access			
	b.	Has a performance analy If "yes," what is your lev	sis been done? yel of confidence in the performance analysis?			
Add	Cor	mments Here:				
		If "yes," do you have a n	nodel to track performance through design and implementation?			
9.	Tes	Testability (Is the product difficult or impossible to test?)				
	a.	Is the software going to b	be easy to test?			
	b.	Does the design include	-			
	c.	_	ed in analyzing requirements?			
10.	Ma		plementation be difficult to understand or maintain?)			
	a.	Does the architecture, de	sign, or code create any maintenance difficulties?			

Is the product documentation adequate for maintenance by an outside organization?

b. Are the maintenance people involved early in the design?

Reliability (Are the reliability or availability requirements difficult to meet?)

- Are reliability requirements allocated correctly to software and hardware?
- Are availability requirements allocated correctly to software and hardware? If "yes," are recovery timelines any problem?

12. Safety (Are the safety requirements infeasible and not demonstrable?)

- Are safety requirements allocated correctly to software and hardware? If "yes," do you see any difficulty in meeting the safety requirements?
- Will it be difficult to verify satisfaction of safety requirements?

13. Look and feel (Will the system be difficult to use because of poor human interface definition?)

Do you see any difficulty in meeting the human factors requirements?

If "no," how are you ensuring that you will meet the human interface requirements?				
Add Comments Here:				
b. Is it a throwaway prototype?				
If "no," are you doing evolutionary development?				
If "yes," are you experienced in this type of development?				
Are interim versions deliverable?				
Does this complicate change control?				
14. Specifications (Is the documentation adequate to design, implement, and test the system?)				
a. Is the software requirements specification adequate to design the system?				

- b. Are the hardware specifications adequate to design and implement the software?
- c. Are the external interface requirements well specified?
- d. Are the test specifications adequate to fully test the system?
- d. Will vendor data be accepted in verification of requirements allocated to COTS products?

If "yes," is the contract clear on that?

Add Comments Here:			