Software Development/Change Assessment

Existing	/proposed	d application :							
Completed by :			Date:						
1	Sc	Scope & Positioning							
	The	The purpose of these questions is							
	•				osed application (or chang of the functional cluster de				
	•	To gauge the scope and complexity of the proposed application (or change)							
	•	Note whether it generates client deliverables, which would be expected to restrict our freedom							
	•	Note whether it uses or is effected by standards, codes or norms							
	•	Identify any ch	ange control function	nality and addres	s how it can be made audit	able			
1.1	Clu	ster Assoc	iation						
	In v	vhat functional c	uster does this exist'	? (check one)	engineering analysis engineering data material management project support business support document related				
	Are		her items in the same		engineering analysis engineering data material management project support business support document related	Yes No			
	resu their	It in a documente	ed interface definition ection of transfer and	which will identi	nition of the link(s) is require fy (as a minimum) the data taken with differing values (items transferred			

¹ Functional clusters are groups of applications. A short definition of those identified and examples are shown below:

Functional cluster	Definition	Examples
Engineering analysis	Numerical calculation program, generally standalone	Ceasar, FEPipe, Aspen, Hextran
Engineering data	Lists containing tagged items and their design parameters and/or relationships	EQDMS, CSA, instrument index, P&ID, Line List
Material management	Related to the quantification and control of material	PDS, PMC, RMMS
Project support	Related to the control and monitoring of projects	PEC, Primavera, CCO3
Business support	Related to the "normal" business functions	JDE (financial accounting), CMG- PMS (HR & payroll)
Document related	Applications that create or administer documents	"Basic" CAD, VPC, Documentum, Office

RB14002.doc www.red-bag.com Sheet 1 of 5

Software Development/Change Assessment

1.2	External Constraints		
	Does this (proposed) application generate client deliverables? If Yes, what are they? (documents / data, electronic / hardcopy, client specified format)	Yes	No
	Does this (proposed) application use standards, codes or norms? If Yes, which? (include Company standard forms and templates)	Yes	No
	If the answer is yes then the procedure for updating use of standards, codes and norms (of must be updated to include the (proposed) application.	CM-CA	·-002)
1.3	Change control		
	Are there checks and approvals in the process – for example sign-off authorisations? If Yes, how are these made auditable by the new process?	Yes	No
	Is there any change indication on printed output?		

RB14002.doc www.red-bag.com Sheet 2 of 5

2 Complexity & Risk

The requirement is to simply quantify the complexity and risk of proposed application by answering a series of "multiple choice" questions. It is recognised that the initial assessment may be largely subjective.

Position application in the grid below (by highlighting the appropriate boxes). It is anticipated that no application within Company exists within the crossed out categories. (Categorisation developed with information courtesy of META Group.)

Business Driver	Question					
Business	How rapidly does	the business envi	I ironment change u	l requiring existing p	rocess modification	n or the
volatility	How rapidly does the business environment change, requiring existing process modification or the introduction of a new business process?					
High risk	Very high complexity	High complexity	medium	low	Very low complexity	No complexity
Business cycle	Business cycle	Business cycle	Business cycle	Business cycle	Business cycle	Regulated 6+
measured in	measured in	measured in	2-3 years	3-4 years	5-6 years	years
weeks	months less than 12	12-24 months				
Business Driver	Question					
Application Fit			ffort, considering th	ne "fit" between the	application and co	urrent corporate
LICAL DOLL	practices and cul		T			
High Risk	Very High Complexity	<u>High</u>	<u>Medium</u>	Low	Very Low Complexity	No Complexity
N/A	In-house	In-house	New packaged	New packaged	New packaged	Existing
	development	development	application	application	application	mature
	supporting a new business	supporting an existing	with significant customization	with minor customization	with no customization	application
	process	business	Customization	Customization	Customization	
	process	process				
Business Driver	Question	•				
Developers	How many devel	oper man-months	are required to bui	ld or customize the	application?	
Involved High Risk	Very High	High	Medium	Low	Very Low	No
	Complexity				Complexity	Complexity
N/A	>100	30-100	11-30 developers	4-10<	0<	0
Business Driver	Question					
Data Complexity	How complex is	the application data	a?			
High Risk	Very High	<u>High</u>	<u>Medium</u>	Low	Very Low	<u>No</u>
	Complexity				Complexity	Complexity
N/A	Extensive use	Limited use of	Extensive use	Standard	Mostly	All standard
	of user defined	user defined	of vendor	relational data	standard	relational data
	complex data types	complex data types	supplied complex data	types with limited	relational data types with	types
	types	types	types	complex data	moderate	
			1,700	extensions	customization	
Business Driver	Question					
Business	How many busin	ess activities, func	tions, and process	es must the applica	ation address?	
Process Complexity						
High Risk	Very High	<u>High</u>	<u>Medium</u>	<u>Low</u>	Very Low	No
NI/A	Complexity	On a leveler	0	0	Complexity	Complexity
N/A	Multiple business	One business	One full	One partial	Single Activity	
	function or	function or multiple	business process	process or multiple		
	multiple	business	process	activities		
	unrelated	processes		activities		
	business	p. 000000				
	processes					
			•			

RB14002.doc www.red-bag.com Sheet 3 of 5

Software Development/Change Assessment

3	Organisational Iss	ues					
	Who is the user (function)? Who is sponsoring/suggesting Who is the owner of the existin			Van Na			
	Does the proposed/changed apposes the proposed/changed applies of the proposed applies	pplication change work es embodied in any exi	ing practises?	Yes No			
	Does the proposed/changed appropriate Does the proposed/changed appropriate (What is being used in other of	pplication effect more th	han one office?				
4	Implementation Issues How many users are considered? (named / concurrent) Is a super user identified? Who? What training is required? (eg number of hours per user, internal, external)						
	What database is used?	Access Oracle Ingres Other (Specify)					
	What is client platform?	NT Other (Specify)					
	What is server platform?	Netware NT Unix Other (Specify)					
	Are other "infrastructure" items required and, if so, what version(s)? Eg MS Office, cc:Mail, MAPI						

RB14002.doc www.red-bag.com Sheet 4 of 5

What are the storage requirements? Eg # MB file store, central, local, # MB database

What are the processing requirements? le is there anything that couldn't be handled be "regular" Pentium class processor?

5 Benefits

Identify the anticipated benefits, eg efficiency (over number of manhours per year), reduction in data entry, validation, client requirement...

6 Sign Off

	Name	Date
Preparer	:	
Sponsor	:	
Existing process owner	:	
New process owner (if applicable)	:	
QA	:	
IS	:	

RB14002.doc www.red-bag.com Sheet 5 of 5