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Risk Mitigation and Planning Worldwide.

Procedure

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### 1.0 Purpose

The risk mitigation and planning process uses information from risk identification, assessment and analysis to formulate response strategies for key risks. Common strategies are avoidance, transference and/or mitigation acceptance. The mitigation and planning exercises must be documented in an organized and comprehensive fashion that clearly assigns responsibilities and delineates procedures for mitigation and allocation of risks. Common documentation procedures frequently include the creation of red flag item lists, risk charters and formal risk management planning documentation. Risk mitigation and planning efforts may necessitate that Suppliers set policies, procedures, goals and responsibility standards. Formalizing risk mitigation and planning throughout the Company will help establish a risk culture that should result in better cost management from planning through production and better allocation of project risks that align teams with Customer-oriented performance goals.

## 2.0 Objectives of Risk Mitigation and Planning

The o	bjectives	of ris	k mitigation	and	plannir	ng are							
Three	key ques	stions	can be pose	d for	risk mit	igation:							
1.					•								
2.													
3.													
			. (	χ.									
An un	derstand	ing of	these three	que	estions	is critical	to ris	k m	itigation	and	risk	manage	ement
planni	ng. Ques	tion 1	addresses										

# 3.0 Risk Response Options

Risk identification, assessment and analysis exercises form the basis for sound risk response options. A series of risk response actions can help to avoid or mitigate the identified risks. A response may be the following:



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The above categorization of risk response options
The strategies and actions include the following:
Acceptance:
Avoidance:
Mitigation:
Transference:
Given a clear understanding of the risks, their magnitude and the options for response, an
understanding of project risk will emerge. This understanding will include
C).
4.0 Risk Planning
Risk planning involves the thoughtful development, implementation and monitoring of appropriate risk response strategies. Risk planning is the detailed formulation of a plan of action
for the management of risk:
•
•
Risk planning is iterative and includes
Planning begins by

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#### Risk Planning Documentation 4.1

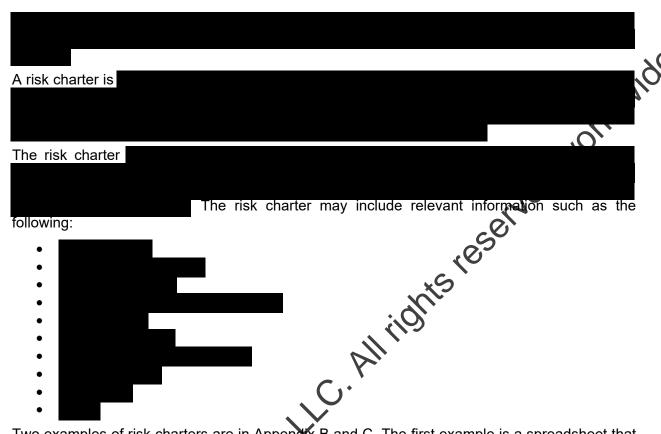
	sk plan should be documen roject. Large projects or pro			he unique attributes of
4.2	Red Flag Item Lists			on bo
A red f	ag item list is			
			×5`	
A red f	lag item list is			
	sample list of risks in Apper ms for a project, it is	ix A. While this	sample list can be use	d to create a list of red
4.3	Risk Charters			
The cre	eation of a risk charter is a Typically it is	more formal ide	ntification of risks than	the listing of red flag
A tisk o	charter is			



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Two examples of risk charters are in Appendix B and C. The first example is a spreadsheet that forms the basis of the risk management plan. The spreadsheet contains columns for identification, analysis, response strategy, monitoring and control. The second example uses the term risk register synonymously with risk charter. The risk register contains more quantitative risk assessment information than the spreadsheet example but the goal of the documentation is similar. The risk register adds issues such as correlation among dependent components, type of distribution used to model the risk and expected value of the risks.

## 5.0 Formal Risk Management Plan

The strategy to manage risk provides the project team with direction and basis for planning. The risk management plan should

The stoprimary steps in project risk management are the following:

1. 2. 3.

4. 5. 6.

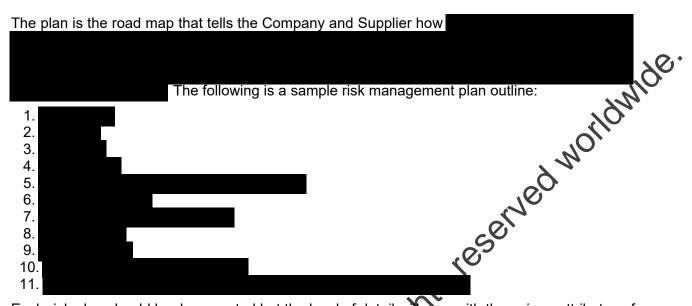
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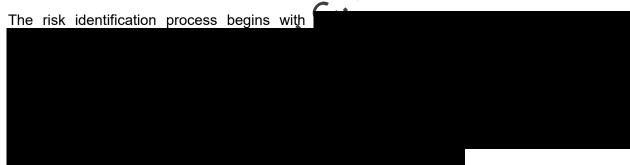
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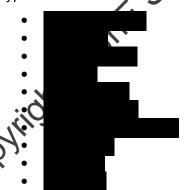


Each risk plan should be documented but the level of detail will vary with the unique attributes of each project. Red flag item lists, risk charters and formal lisk management plans provide flexibility in risk management documentation.

6.0 Risk Identification Process



Typical Risk Identification Checklist:



The team should examine and identify project events by

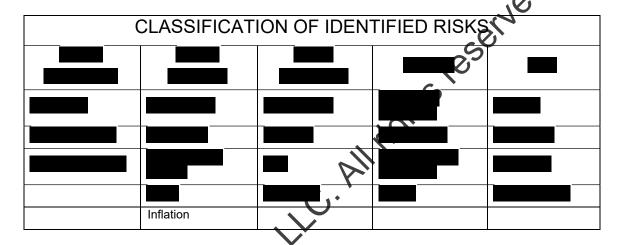


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	\Q\(\frac{1}{2}\)
After the risks are identified, they should be	NOIC
The following table provides a typical list of classifications with alternate identified risks.	



A number of documents and tools are available to support the risk identification process. The following table provides an example of project-specific documents, program documents and techniques available for risk identification.

## 6.1 Risk Identification Tools and Techniques

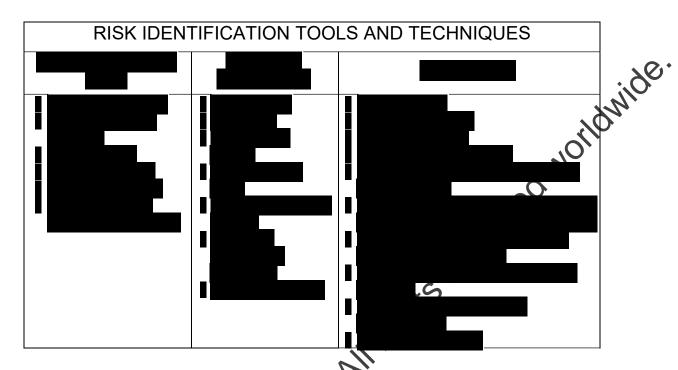
Project ris	k can	be id	dentific	ed multipl	e ways						
Dicks and	anne	tunit	tios th	at affect	products	and	convices	(operational	processes)	can	ho
determine	wsin	g too	ols suc	ch as	products	anu	services	(operational	processes)	Carr	be
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The key to success with any risk identification tool of technique is

The risk identification process identifies and categorizes risks that could affect the project. It documents these risks and, at a minimum,

# 6.2 Risk Allocation

The rigorous process of risk identification, assessment, analysis and mitigation allows for

In theory, best value is achieved by

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The Company is more likely to accept risks
The purchase order is
Best practice:
The goal of an optimal allocation of risk is
The rigorous process of risk identification, assessment, analysis and mitigation allows for a more transparent and informed understanding of project risk. When risks are understood and
their consequences are measured, decisions can be made a allocate risks in a manner that
The objectives of risk allocation can vary depending on unique project goals but four
fundamental tenets of sound risk allocation should always be followed:
• • • • • • • • • • • • • • • • • • •
•
6.2.1 Allocate Risks to Party Best Able to Manage Them
A fundamental tenet of risk management is
Following (Fig. principle

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## 6.2.2 Risk Allocation in Alignment with Project Objectives

Risks should be allocated in a manner that
Me in the second
Allocating risks in alignment with project objectives begins with
The importance of clearly understanding and defining projectives cannot be
overemphasized. Project objectives
6.2.3 Risk Sharing
The concepts of risk sharing and risk allocation are often used synonymously. Risk allocation is
defined as
Communication among parties is a key to any sharing of risk allocation. Risk-sharing provisions
should
6.2.4 Risk, Allocation in Alignment with Customer-Oriented Performance
Goals
The ditimate goal of risk allocation should
6.2.5 Risk Allocation Matrix
Perhaps the most widely used tool for risk allocation is



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Example of risk allocation matrix for outsourced processes:

RISK	PARTY RECOMMENDED TO ASSUME RISK	HOW RISK ASSIGNED OR MANAGED	
	<b>*</b>		
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Allocation matrices are a fundamenta tool in the development of design-produce contracts. Appendix D provides an example design-produce risk allocation matrix. It provides a detailed framework to make risk allocation decisions for each design-produce project. The matrix is also

# 6.2.6 Innovative Contracting Tools and Techniques

/		
The purchase order is		

The obwing table provides a list of innovative project delivery, procurement and contracting methods that can be used for risk allocation.

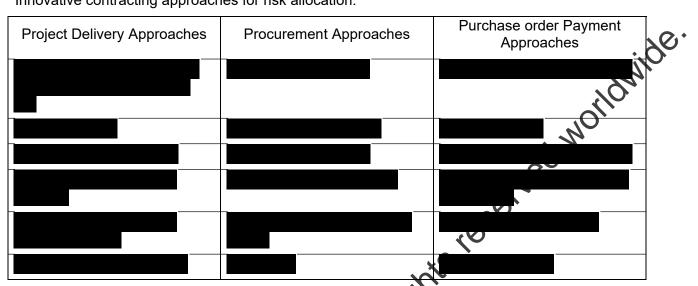
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Innovative contracting approaches for risk allocation:



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**6.2.7 Contingency Considerations** 

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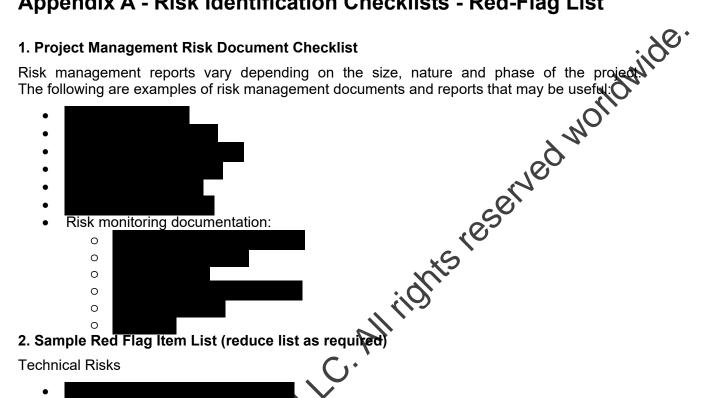
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## Appendix A - Risk Identification Checklists - Red-Flag List





External Risks



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**Environmental Risks** 

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Organizational Risks

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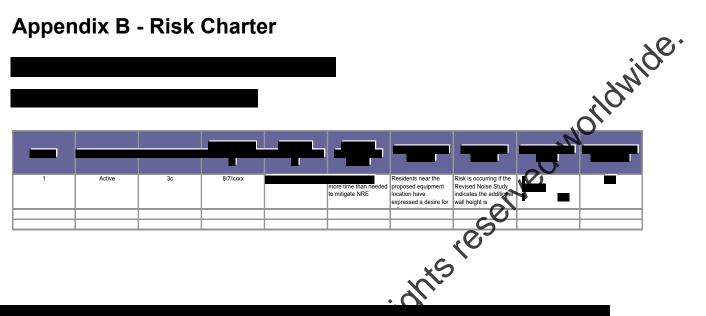


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## Appendix B - Risk Charter



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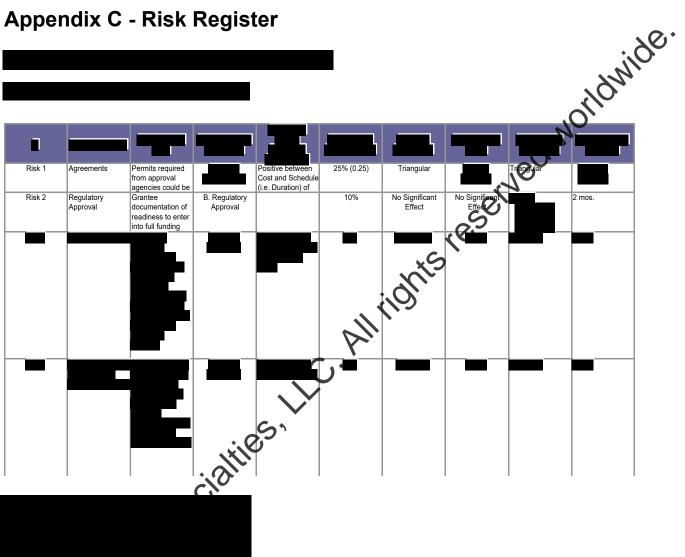


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## Appendix C - Risk Register





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# **Appendix D - Design-Produce Risk Allocation Matrix**

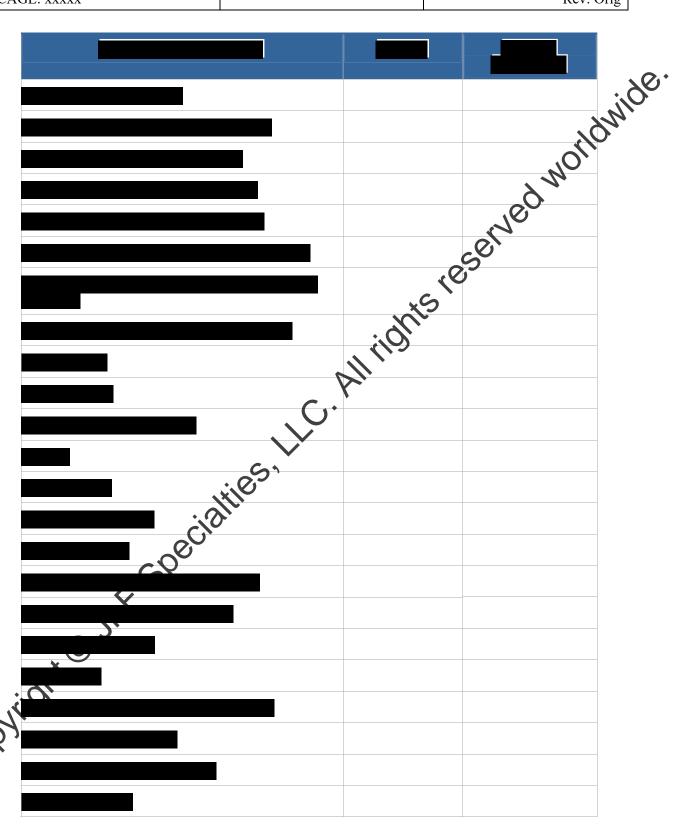


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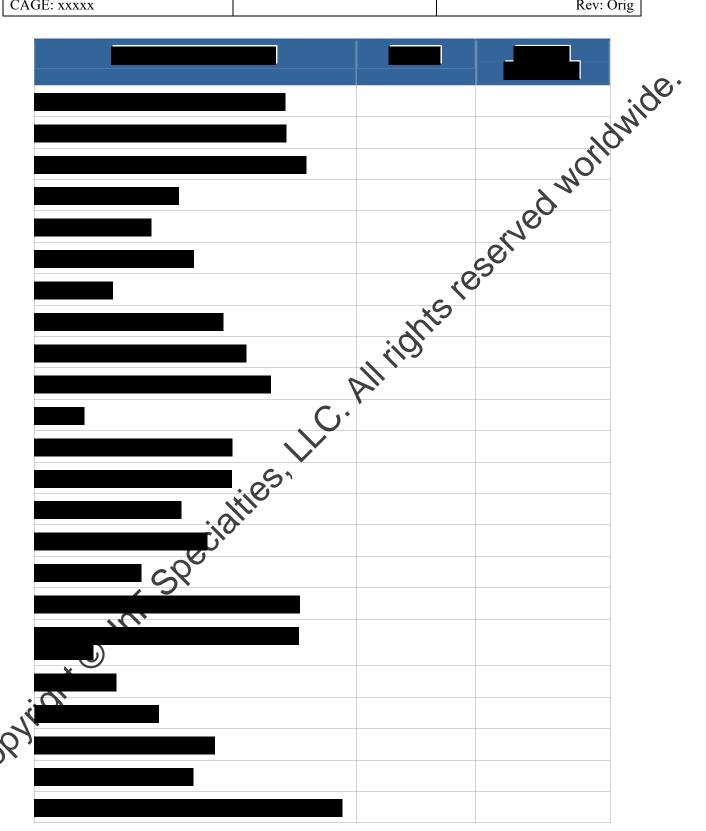
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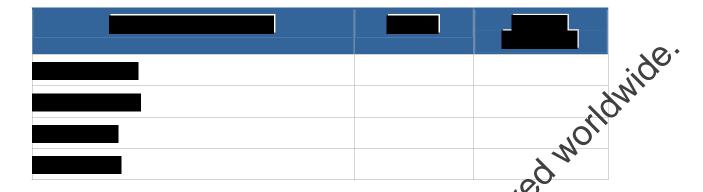
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## **Appendix E - Critical Elements Risk Assessment**



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