Qualitative | Quantitative

Risk			Pre-Mitigation (Data Date = 12 Oct 05)					Mitigation			Post-mitigation					Details			
ID	T/O	Title	Probability	Schedule	C...	Safety	Score	Response	Title	Total Cost	Probability	Schedule	C...	Safety	Score	Owner	Description	Cause	Effect
RISK4	T	Key resource unavailable	H	L	L	VH	56	Reduce	Change res...	$300,000	VL	L	L	N	1	DP	Key resourc...	Due to othe...	Delay co...
RISK3	T	Contract Delay	H	M	L	H	28	Reduce	Change for...	$500,000	L	M	L	N	6	DP	Client may...	Due to com...	Delaying
RISK10	O	Reuse previous design work	H	N	H	N	28	Enhance		$0	H	N	H	N	28	TS	It may be p...	Due to the...	Saving ti...
RISK5	T	Delivery overrun	M	H	N	N	20	Reduce	Source alter...	$50,000	L	L	N	N	3	TR	It may be n...	Due lack of...	The deliv...
RISK9	T	Design changes	H	M	M	N	14	Reduce		$0	H	M	M	N	14	LM	The design...	Due to clie...	Which w...
RISK1	T	Poor understanding and detail ...	L	H	M	VL	12	Reduce	Introduce p...	$10,000	VL	L	L	N	1	TS	The design...	Due to poo...	Could de...
RISK7	T	Rework required for assembly ...	M	H	M	L	10	Reduce	Check man...	$200,000	N	M	M	N	0	BJ	The assem...	Due to inco...	Which w...
RISK2	T	System failure	VL	VH	VH	VH	8	Reduce	Improve ini...	$750,000	N	VH	VH	N	0	RB	There may...	Due to the...	Guidanc...
RISK8	T	Testing fails	L	L	L	N	3	Reduce		$0	L	L	L	N	3	LM	Missile testi...	Due to pro...	Rework v...
RISK6	T	Fabrication contractor goes bust	N	M	M	M	0	Reduce		$0	N	M	M	M	0	TR	The fabrica...	Due to poo...	A new fa...

Risk Details | Code Fields | Mitigation | Waterfall Chart | Notes | Risk History

ID: RISK4
Title: Key resource unavailable
RBS: R.1.3

Cause: Due to other project commitments.
Description: Key resources may be unavailable.
Effect: Delay could occur on completion of key activities.

Threat / Opportunity: Threat
Manageability:
Owner: DP
Status: Open
Exposure (Entered): $0

Start Date: 07 Jan 06
End Date: 01 Jan 08

☐ Quantified Risk
☑ Show in Quantitative

Pre-mitigated position:

			Score
Probability	H	(50% to 70%)	56
Schedule	L	(10 to 20)	
Cost	L	($10,000 to $50,000)	Overall Impact
Safety	VH	(Failure to meet ac...	VH

Post-mitigated position:

			Score
Probability	VL	(Up to 10%)	1
Schedule	L	(10 to 20)	
Cost	L	($10,000 to $50,000)	Overall Impact
Safety	N	(Negligible)	L

Search

- **<EntirePlan>**
  - ◆ A010 - Project Start
  - ◆ A011 - Project Completion
  - **A020 - Pre-Bid & Bid**
    - A030 - Characterisation
    - A040 - Pre design & optioneering
    - A050 - Feasibility & Design
  - **A060 - Engineering**
    - A070 - Front End Eng Design
    - A080 - Scheme paper
    - A090 - Board approvals
    - A100 - Design development
    - A110 - Contract process
    - A120 - Safety case
    - A130 - External approvals
  - **A140 - Procurement**
    - A150 - Implementation
    - A160 - Site mobilisation
    - A170 - Procure 3rd party contractors
  - **A180 - Construction**
    - A190 - Reduce hazards
    - A200 - Clean strip out
    - A210 - Contaminated strip out
    - A220 - Decontaminate structures
    - A230 - Building demolition
  - **A290 - Post Implementation**
    - A240 - Post Implementation finishes
    - A250 - Final report, historic records and claims
  - ◆ A310 - Damages Start
  - A320 - Damages

Tasks | Resources

Engineering, Procurement, Construction sample
A010 - Project Start : Finish Date

Data
Finish Date of:
A010 - Project Start

Analysis
Simulation:	Latin Hypercube
Iterations:	1000

Convergence at mean
Mean Plan Finish Date:
Converged in 200 iterations
(variation < 1% over 100 iterations)
Mean Total Plan Cost:
Converged in 200 iterations
(variation < 1% over 100 iterations)

Statistics
Minimum:	12 Oct 05
Maximum:	12 Oct 05
Mean:	12 Oct 05
Std Deviation:	0.000
Bar Width:	day

Finish Date | Start Date | Duration | Float | Cost | NPV | IRR

Histogram
Bar Width: Automatic (day)
Color: ☐
☐ Use as default for new projects

Highlighters
☑ 90%
☑ Deterministic
☑ P90 Contingency
☑ 50%
☑ 80%

Add to Distribution Analyzer
Show Distribution Analyzer ...

OK | Cancel

Top panel

Tree (Tasks)

- `<EntirePlan>`
  - ◆ A010 - Project Start
  - ◆ A011 - Project Completion
  - A020 - Pre-Bid & Bid
    - A030 - Characterisation
    - A040 - Pre design & optioneering
    - A050 - Feasibility & Design
  - A060 - Engineering
    - A070 - Front End Eng Design
    - A080 - Scheme paper
    - A090 - Board approvals
    - A100 - Design development
    - A110 - Contract process
    - A120 - Safety case
    - A130 - External approvals
  - A140 - Procurement
    - A150 - Implementation
    - A160 - Site mobilisation
    - A170 - Procure 3rd party contractors
  - A180 - Construction
    - A190 - Reduce hazards
    - A200 - Clean strip out
    - A210 - Contaminated strip out
    - A220 - Decontaminate structures
    - A230 - Building demolition
  - A290 - Post Implementation
    - A240 - Post Implementation finishes
    - A250 - Final report, historic records and claims
  - ◆ A310 - Damages Start
  - A320 - Damages

[Search]

Tasks | Resources

Chart

Engineering, Procurement, Construction sample
A011 - Project Completion : Finish Date

22

Hits axis: 90.0, 80.0, 70.0, 60.0, 50.0, 40.0, 30.0, 20.0, 10.0, 0.0

Cumulative Frequency:
- 100% 25 Jan 08
- 95% 24 Dec 07
- 90% 12 Dec 07
- 85% 05 Dec 07
- 80% 29 Nov 07
- 75% 23 Nov 07
- 70% 19 Nov 07
- 65% 14 Nov 07
- 60% 09 Nov 07
- 55% 06 Nov 07
- 50% 30 Oct 07
- 45% 25 Oct 07
- 40% 19 Oct 07
- 35% 16 Oct 07
- 30% 11 Oct 07
- 25% 08 Oct 07
- 20% 03 Oct 07
- 15% 28 Sep 07
- 10% 24 Sep 07
- 5% 17 Sep 07
- 0% 21 Aug 07

X-axis (Distribution (start of interval)): 06 Oct 07, 25 Nov 07, 14 Jan 08

Data panel

Data
Finish Date of:
A011 - Project Completion

Analysis
| Simulation: | Latin Hypercube |
| Iterations: | 1000 |

Convergence at mean
Mean Plan Finish Date:
Converged in 200 iterations
(variation < 1% over 100 iterations)
Mean Total Plan Cost:
Converged in 200 iterations
(variation < 1% over 100 iterations)

Statistics
Minimum:	21 Aug 07
Maximum:	25 Jan 08
Mean:	01 Nov 07
Std Deviation:	30.53
Bar Width:	week

Finish Date | Start Date | Duration | Float | Cost | NPV | IRR

Histogram
Bar Width: Automatic (week)
Color: [red]
☐ Use as default for new projects

Highlighters
☑ 90%
☑ Deterministic
☑ P90 Contingency
☑ 50%
☑ 80%

[Add to Distribution Analyzer]
[Show Distribution Analyzer]
[OK] [Cancel]

Bottom panel

Tree (Tasks)

- `<EntirePlan>`
  - ◆ A010 - Project Start
  - ◆ A011 - Project Completion
  - A020 - Pre-Bid & Bid
    - A030 - Characterisation
    - A040 - Pre design & optioneering
    - A050 - Feasibility & Design
  - A060 - Engineering
    - A070 - Front End Eng Design
    - A080 - Scheme paper
    - A090 - Board approvals
    - A100 - Design development
    - A110 - Contract process
    - A120 - Safety case
    - A130 - External approvals
  - A140 - Procurement
    - A150 - Implementation
    - A160 - Site mobilisation
    - A170 - Procure 3rd party contractors
  - A180 - Construction
    - A190 - Reduce hazards
    - A200 - Clean strip out
    - A210 - Contaminated strip out
    - A220 - Decontaminate structures
    - A230 - Building demolition
  - A290 - Post Implementation
    - A240 - Post Implementation finishes
    - A250 - Final report, historic records and claims
  - ◆ A310 - Damages Start
  - A320 - Damages

[Search]

Tasks | Resources

Chart

Engineering, Procurement, Construction sample
Entire Plan : Cost

$510,000

Hits axis: 200, 150, 100, 50, 0

Cumulative Frequency:
- 100% $26,273,155
- 95% $25,160,655
- 90% $24,880,655
- 85% $24,718,155
- 80% $24,588,155
- 75% $24,480,655
- 70% $24,383,155
- 65% $24,300,655
- 60% $24,225,655
- 55% $24,148,255
- 50% $24,088,155
- 45% $24,023,255
- 40% $23,950,755
- 35% $23,870,655
- 30% $23,790,755
- 25% $23,708,255
- 20% $23,600,755
- 15% $23,515,755
- 10% $23,408,255
- 5% $23,260,755
- 0% $22,625,755

X-axis (Distribution (start of interval)): $23,000,000, $24,000,000, $25,000,000, $26,000,000

Data panel

Data
Cost of:
Entire Plan

Analysis
| Simulation: | Latin Hypercube |
| Iterations: | 1000 |

Convergence at mean
Mean Plan Finish Date:
Converged in 200 iterations
(variation < 1% over 100 iterations)
Mean Total Plan Cost:
Converged in 200 iterations
(variation < 1% over 100 iterations)

Statistics
Minimum:	$22,625,755
Maximum:	$26,273,155
Mean:	$24,125,505
Std Deviation:	576,892
Bar Width:	$250,000

Finish Date | Start Date | Duration | Float | Cost | NPV | IRR

Histogram
Bar Width: Automatic ($250,000)
Color: [blue]
☐ Use as default for new projects

Highlighters
☑ 90%
☑ Deterministic
☑ P90 Contingency
☑ 50%
☑ 80%

[Add to Distribution Analyzer]
[Show Distribution Analyzer]
[OK] [Cancel]