

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 1 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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<p>Activity Balloon tether</p> <p>Code:</p> <p>Identified Hazard: Fire – Malfunction of burner</p> <p>Code:</p>	
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Risk Assessment Legend:

Likelihood of Harm	Severity of Harm	Assessment Matrix																
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	<table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px; text-align: center;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> </tr> </table>	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
3	4		5	6														
2	3		4	5														
1	2		3	4														
0	1	2	3															
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability																	
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																	
		Severity >																

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **3**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Quick shut off valves on fuel supply.

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 2 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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<p>Activity Balloon tether</p> <p>Code:</p> <p>Identified Hazard: Fire – Ignition of envelope material</p> <p>Code:</p>	
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Risk Assessment Legend:

Likelihood of Harm	Severity of Harm	Assessment Matrix																				
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	<table border="1" style="text-align: center; border-collapse: collapse;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">4</td> <td style="width: 20px;">5</td> <td style="width: 20px;">6</td> </tr> <tr> <td style="width: 20px;">3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td style="width: 20px;">2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td style="width: 20px;">1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td style="width: 20px;">0</td> <td>1</td> <td>2</td> <td>3</td> </tr> </table>		4	5	6	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
	4		5	6																		
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2	3		4	5																		
1	2	3	4																			
0	1	2	3																			
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability																					
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																					
		Severity >																				

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **1**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Material is fireproof or non flammable.

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 3 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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<p>Activity</p> <p style="padding-left: 40px;">Balloon tether</p> <p>Code:</p> <p>Identified Hazard:</p> <p style="padding-left: 40px;">Fire – general</p> <p>Code:</p>	
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Risk Assessment Legend:

Likelihood of Harm	Severity of Harm	Assessment Matrix																
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	<table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> </tr> </table>	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
3	4		5	6														
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0	1	2	3															
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability																	
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																	
		<p>Likelihood ^</p> <p>Severity ></p>																

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **4**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: All smoking banned near fuel supply. Crew wear cotton or non flammable overalls and gloves. Public kept back from balloon by tape. Fire extinguishers in basket and trailer. Crew trained in firefighting

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 4 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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<p>Activity Balloon tether</p> <p>Code:</p> <p>Identified Hazard: Wind – blowing balloon</p> <p>Code:</p>	
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Risk Assessment Legend:

Likelihood of Harm	Severity of Harm	Assessment Matrix																
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	<table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> </tr> </table>	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
3	4		5	6														
2	3		4	5														
1	2		3	4														
0	1	2	3															
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability																	
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																	
		Severity >																

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **4**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Inflation limited to wind speed of 10 knots. Balloon tethered to minimum three points (two upwind – usually vehicle and one downwind – tree or vehicle)

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 5 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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<p>Activity Balloon tether</p> <p>Code:</p> <p>Identified Hazard: Wind – dragging vehicle</p> <p>Code:</p>	
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Risk Assessment Legend:

Likelihood of Harm	Severity of Harm	Assessment Matrix																
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	<table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> </tr> </table>	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
3	4		5	6														
2	3		4	5														
1	2		3	4														
0	1	2	3															
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability																	
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																	
		Severity >																

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **6**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Inflation limited to wind speed of 10 knots. Crew member in vehicle. Balloon deflated if wind increases.

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 6 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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<p>Activity Balloon tether</p> <p>Code:</p> <p>Identified Hazard: Gas tanks - explosion</p> <p>Code:</p>	
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Risk Assessment Legend:

Likelihood of Harm	Severity of Harm	Assessment Matrix																				
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	<table border="1" style="text-align: center; width: 100%;"> <tr> <td style="width: 10%;"></td> <td style="width: 25%;">4</td> <td style="width: 25%;">5</td> <td style="width: 25%;">6</td> </tr> <tr> <td style="width: 10%;">3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td style="width: 10%;">2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td style="width: 10%;">1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td style="width: 10%;">0</td> <td>1</td> <td>2</td> <td>3</td> </tr> </table>		4	5	6	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
	4		5	6																		
3	4		5	6																		
2	3		4	5																		
1	2	3	4																			
0	1	2	3																			
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability	Likelihood ^																				
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																					
		Severity >																				

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **4**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Tanks built to aviation standards, padded and tied firmly in basket.

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 7 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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Activity Balloon tether Code: Identified Hazard: Ropes - breaking Code:	
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Risk Assessment Legend:

Likelihood of Harm

Severity of Harm

Assessment Matrix

Cat 1 = Low Seldom occurs

Cat 1 = Low Other injury or illness

Cat 2 = Med Reasonably likely to occur

Cat 2 = Med Injury or illness causing short term Disability

Cat 3 = High Certain or near certain to occur

Cat 3 = High Fatality: major injury/illness with long term disability

Likelihood ^

3	4	5	6
2	3	4	5
1	2	3	4

0 1 2 3

Severity >

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: 4

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Use of three tether points as back up if one breaks.

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 8 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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Activity Balloon tether Code: Identified Hazard: Ropes - Tripping Code:	
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Risk Assessment Legend:																			
Likelihood of Harm	Severity of Harm		Assessment Matrix																
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness		Likelihood ^ <table border="1" style="margin: auto;"> <tr><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>0</td><td>1</td><td>2</td><td>3</td></tr> </table> Severity >	3	4	5	6	2	3	4	5	1	2	3	4	0	1	2	3
3	4	5		6															
2	3	4		5															
1	2	3		4															
0	1	2	3																
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability																		
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability																		

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: 5

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Public kept clear of inflation area by tape or barriers	Revisions with dates:
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When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.

RISK ASSESSMENT SHEET

Carried out by N. J. Langley – April 2016

Sheet No. 9 of 9

Project:	Airship and Balloon Company Limited – ABC Flights Ltd.	Job No:	
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Activity	Balloon tether		
Code:			
Identified Hazard:			
Code:	Lifting weights		

Risk Assessment Legend:															
Likelihood of Harm	Severity of Harm	Assessment Matrix													
Cat 1 = Low Seldom occurs	Cat 1 = Low Other injury or illness	Likelihood ^	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10px;">3</td> <td style="width: 20px;">4</td> <td style="width: 20px;">5</td> <td style="width: 20px;">6</td> </tr> <tr> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	3	4	5	6	2	3	4	5	1	2	3	4
3	4			5	6										
2	3			4	5										
1	2	3	4												
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med Injury or illness causing short term Disability	0	1												
Cat 3 = High Certain or near certain to occur	Cat 3 = High Fatality: major injury/illness with long term disability	2	3												
		Severity >													

Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: **6**

Action – 2 & 3 may be controlled – 4, 5 & 6 should be avoided if possible.

Measures of Mitigation: Lifting limited to 60 litre gas tanks. Basket and envelope lifted into vehicle by minimum 2 crew or tilted for loading into low floor trailer

Revisions with dates:

When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.