Project: Airship and Balloon Company Limited – ABC Flights Ltd.

Carried out by N. J. Langley – April 2016 Sheet No. 1 of 9

Activity Balloon tether Code:					
		1			
Identified Hazard: Fire – Malfunction of burner					
Code:					
Risk Assessment Legend:					
Likelihood of Harm Severity of Harm		A	ssess	sment	Matrix
Cat 1 = Low Seldom occurs Cat 1 = Low Other injury or illnes	ss	3	4	5	6
Cat 2 = Med Reasonably likely to occur Cat 2 = Med Injury or illness cau short term Disability		2	3	4	5
Cat 3 = High Certain or near certain to occur Cat 3 = High Fatality: major injury/illness long term disability	with J	1	2	3	4
		0	1	2	3
•••				Sever	rity >
Plot assessed severity of harm against assessed likelihood of harm and ind	icate value ob	taine	d 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.	tes:				
When adding a revision, rule off beneath original measures of mitigation – r	evised matrix	if nec	.0663	rv.	
When adding a revision, rule on beneath original measures of mitigation – r	eviseu maurx	11 1160	,cssa	у.	

Project: Airship and Balloon Company Limited – ABC Flights Ltd.

Carried out by N. J. Langley – April 2016 Sheet No. 2 of 9

Activity Balloon tether								
Code:				1				
Identified Hazard:								
Fire – Ignition of env Code:	velope ma	terial						
								_
Risk Assessment Legend:			¥					
Likelihood of Harm Severit	ty of Harm	10		Α	ssess	sment	Matrix	
Cat 1 = Low Seldom occurs Ca	at 1 = Low	Other injury or illness		3	4	5	6	
Cat 2 = Med Reasonably likely to occur Ca	at 2 = Med	Injury or illness causin short term Disability	g ^ boo	2	3	4	5	
Cat 3 = High Certain or near certain to occur Ca	at 3 = High	Fatality: major injury/illness wit long term disability	y Likelihood ∨	1	2	3	4	
				0	1	2	3	
•. <						Sever	ity >	
Plot assessed severity of harm against assess	sed likeliho	od of harm and indica	te value ok	otaine	d this	:1		
Action – 2 & 3 may be controlled – 4, 5 & 6 sho	ould be avo	oided if possible.						
Measures of Mitigation: Material is firepro non flammable.	of or	Revisions with dates	::					
When adding a revision, rule off beneath origi	nal measur	es of mitigation – rev	sed matrix	if nec	essa	ry.		

Project: Airship and Balloon Company Limited – ABC Flights Ltd.

Carried out by N. J. Langley – April 2016 Sheet No. 3 of 9

					7	
Activity Balloon tether						
Code:						
Identified Hazard:						
Fire – general Code:						
Code.						
Risk Assessment Legend:						
Likelihood of Harm Severity of	Harm		A	Assess	sment	Matrix
Cat 1 = Low Seldom occurs Cat 1 =	Low Other injury or illness		3	4	5	6
Cat 2 = Med Reasonably likely to occur Cat 2 =	Med Injury or illness causing short term Disability	Likelihood >	2	3	4	5
Cat 3 = High Certain or near certain to occur Cat 3 =	High Fatality: major injury/illness with long term disability	Likelil	1	2	3	4
			0	1	2	3
					Sevei	ritv >
						,
Plot assessed severity of harm against assessed I	ikelihood of harm and indica	te value o	htaine	d this	. 4	
		ic value o	Diame	u tilis		
Action – 2 & 3 may be controlled – 4, 5 & 6 should	be avoided if possible.					
Measures of Mitigation: All smoking banned		•				
fuel supply. Crew wear cotton or flammable overalls and gloves. Public						
back from balloon by tape. Fire extinguis	-					
in basket and trailer. Crew trained						
firefighting						
When adding a revision, rule off beneath original r	neasures of mitigation – revi	sed matrix	k if ned	cessa	ry.	

Project: Airship and Balloon Company Limited – ABC Flights Ltd.

Carried out by N. J. Langley – April 2016 Sheet No. 4 of 9

				+						
Activity Balloon tether Code:										
Identified Hazard: Wind – blowing balloon Code:										
Risk Assessment Legend:										
Likelihood of Harm Severity of Harn	1		Δ	ssess	sment	Matrix				
Cat 1 = Low Seldom occurs Cat 1 = Low	Other injury or illness		3	4	5	6				
Cat 2 = Med Reasonably likely to occur Cat 2 = Med	Injury or illness causing short term Disability	Likelihood >	2	3	4	5				
Cat 3 = High Certain or near certain to occur Cat 3 = High	n Fatality: major injury/illness with long term disability	Likeli	1	2	3	4				
			0	1	2 Seve	3 rity >				
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 Revisions with dates:										
speed of 10 knots. Balloon tethered to minimum three points (two upwind – usually vehicle and one downwind – tree or vehicle)										
When adding a revision, rule off beneath original meas	ures of mitigation – revised	matrix	if nec	cessa	ry.					

RISK ASSESSMENT

Carried out by N. J. Langley – April 2016 Sheet No. 5 of 9

Project:	Airship and Balloon Compan	ny Limited – A	ABC Flights Ltd.	Job No:				
Activity								
	Balloon tether							
Code:								
Identified	Hazard: Wind – dragging veh	nicle						
Code:	vvilla dragging ver	TIOIC .						
Risk Asse	essment Legend:							
Likelihoo		erity of Harm	10		A	Assess	ment	Matrix
Cat 1 = Lo	w Seldom occurs	Cat 1 = Low	Other injury or illness		3	4	5	6
Cat 2 = Me	ed Reasonably likely to occur	Cat 2 = Med	Injury or illness causin short term Disability	cikelihood >	2	3	4	5
Cat 3 = Hi	gh Certain or near certain to occur	Cat 3 = High	Fatality: major injury/illness wit long term disability	th Likelih	1	2	3	4
					0	1	2	3
	·.O						Sever	rity >
Plot asses	ssed severity of harm against ass	sessed likeliho	ood of harm and indica	ate value ob	taine	d this	6	
Action – 2	2 & 3 may be controlled – 4, 5 & 6	should be avo	oided if possible.					
speed o	of Mitigation: Inflation limited f 10 knots. Crew member in deflated if wind increases.		Revisions with dates	s :				
When add	ling a revision, rule off beneath o	original measu	res of mitigation – rev	ised matrix	if ned	cessa	r y .	

Project: | Airship and Balloon Company Limited – ABC Flights Ltd.

Carried out by N. J. Langley – April 2016 Sheet No. 6 of 9

						-				
Activity Balloon tether Code:			()				
Identified Hazard: Gas tanks - explosion Code:	n									
Risk Assessment Legend:										
Likelihood of Harm Seve	erity of Harm	\O		A	Assess	sment	Matrix			
Cat 1 = Low Seldom occurs	Cat 1 = Low	Other injury or illness		3	4	5	6			
Cat 2 = Med Reasonably likely to occur	Cat 2 = Med	Injury or illness causing short term Disability	Likelihood >	2	3	4	5			
Cat 3 = High Certain or near certain to occur	Cat 3 = High	Fatality: major injury/illness with long term disability	Likeli	1	2	3	4			
				0	1	2	3			
•						Seve	rity >			
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 a standards, padded and tied firmly in		Revisions with dates:								
When adding a revision, rule off beneath or	riginal measu	res of mitigation – revised	d matrix	if ned	cessa	ry.				
When adding a revision, rule off beneath or		res of mitigation – revised	d matrix	if ned	cessa	ry.				

Carried out by N. J. Langley – April 2016 Sheet No. 7 of 9

Balloon tether Code: dentified Hazard: Ropes - breaking Risk Assessment Legend: Likelihood of Harm Severity of Harm 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 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. Revisions with dates:	Project: Airship and Balloon Company Limited	- ABC Flights Ltd. Job	No:							
Balloon tether Code: Ropes - breaking Ropes -										
Risk Assessment Legend: Likelihood of Harm Severity of Harm Cat 1 = Low Seldom occurs Cat 1 = Low Other injury or illness Cat 2 = Med Reasonably likely to occur Cat 2 = Med Reasonably likely to occur Cat 3 = High Fatality: major injury/illness with long term disability 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. Revisions with dates: Revisions with dates:	Activity Balloon tether Code:									
Risk Assessment Legend: Likelihood of Harm Severity of Harm 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 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. Revisions with dates:	Identified Hazard: Ropes - breaking Code:		•							
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 O 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. Revisions with dates:										
Cat 1 = Low Seldom occurs Cat 1 = Low Other injury or illness 3 4 5 6 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 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.	Risk Assessment Legend:									
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 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. Revisions with dates:	Likelihood of Harm Severity of Ha	ırm		Assess	ment Matrix					
Short term Disability Fatality: major injury/illness with long term disability On 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. Revisions with dates: Revisions with dates:	Cat 1 = Low Seldom occurs Cat 1 = Lo	ow Other injury or illness	3	4	5 6					
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:	Cat 2 = Med Reasonably likely to occur Cat 2 = Med		^ poou 2	3	4 5					
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:	Cat 3 = High Certain or near certain to occur Cat 3 = Hi	major injury/illness with	ike 1	2	3 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:	~Q		0							
Measures of Mitigation: Use of three tether points as back up if one breaks.	Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: 4									
When adding a revision, rule off beneath original measures of mitigation – revised matrix if necessary.										
	When adding a revision, rule off beneath original mea	asures of mitigation – revised r	matrix if ne	ecessar	y.					

Carried out by N. J. Langley – April 2016 Sheet No. 8 of 9

Project: Airship and Balloon Company Limited – ABC Flights Ltd. Job No:										
Activity Balloon tether Code:										
Identified Hazard: Ropes - Tripping Code:										
Risk Assessment Legend:										
Likelihood of Harm Severity of Harm	A	ssessr	ment	Matrix						
Cat 1 = Low Seldom occurs Cat 1 = Low Other injury or illness	3	4	5	6						
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	2	3	4	5						
Cat 3 = High Certain or near certain to occur Cat 3 = High Fatality: major injury/illness with long term disability	1	2	3	4						
	0	1 S	2 Sever	3 ity >						
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:										
When adding a revision, rule off beneath original measures of mitigation – revised matrix	if nec	essar	у.							

Carried out by N. J. Langley – April 2016 Sheet No. 9 of 9

Project:	Airship and Balloon Compan	y Limited – A	ABC Flights Ltd.	Job No:				
<u>, </u>								
Activity Code:	Balloon tether							
Identified Code:	Hazard: Lifting weights							
Risk Asse	essment Legend:		-0					
Likelihood	-	rerity of Harm	10		A	Assess	sment	Matrix
Cat 1 = Lo	w Seldom occurs	Cat 1 = Low	Other injury or illness		3	4	5	6
Cat 2 = Me	ed Reasonably likely to occur	Cat 2 = Med	Injury or illness causir short term Disability	ng / Fikelihood >	2	3	4	5
Cat 3 = Hi	gh Certain or near certain to occur	Cat 3 = High	Fatality: major injury/illness wi long term disability	th Likelik	1	2	3	4
Plot asses	0 1 2 3 Severity > Plot assessed severity of harm against assessed likelihood of harm and indicate value obtained this: 6							
Action – 2	2 & 3 may be controlled – 4, 5 & 6	should be avo	oided 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								
When add	ling a revision, rule off beneath o	riginal measur	res of mitigation – rev	ised matrix	if ned	cessa	ry.	