

LCSC Risk Analysis.

1 - Competitors on Water - Developed by H Urquhart & I. Skyring Date 21.12.14 Reviewed by. _____ Date. _____

ID N o.	Hazard	Initial Likelihood	Initial Sev	Initial Risk	Control	New Likelihood	New Sev	New Risk Rating	Accept Risk?	Resources	Person Responsible	Time-frame
	Weather/Environment/Seastate											
1	Severe weather changes (including squalls, electrical storms) resulting in sailors and officials being exposed during events. electrical storms) resulting in sailors and officials being exposed during events	A	D	2	<ul style="list-style-type: none"> • Weather forecast. • Post forecast on noticeboard. • Create a contact list. • Incident Management plan. • Briefing. • Emergency procedures. • Monitor weather by use of Radar 	B	E	4	Yes	BO M, Sea breeze, IMP	Principal Race Officer	Judgment on the day
2	Dangerous sea and wave conditions result in capsizes, personal injury or boats being unable to get off the beach or return to shore safely.	A	D	2	Set limits on weather conditions for club racing activities. Postpone or cancel races. Discuss alternate access points for retrieving boats.	B	E	4	Yes		PRO	
3	Sunstroke / sunburn / dehydration to sailors and /or officials.	A	C		Advise at briefings. Wear appropriate PPE	C	E	4	Y	Posters ?	Parents and sailors	
4	Sickness/Disability of rescue craft personnel resulting in not being able to provide effective rescue capabilities.	C	B	2	Rescue boat crew fitness to be monitored by Safety Officer/ PRO/Committee. Notice regarding health and fitness to be appended to duty rosters..	D	D	4	Y		Safety Officer/ PRO/Committee.	
5	Sailors and race officials develop hypothermia.	D	C	3	Safety Officer/PRO to monitor conditions. Rescue boat crews to monitor themselves and competitors. Abandon race in extreme conditions.	D	D	4				
	Participating Boats											
6	Collision of boats resulting in personal injury and/or major damage disabling boat(s).	D	B	1	<ul style="list-style-type: none"> • Clear pre-race instructions • Application of RRS • 	C	B		Yes	IRPCS, RRS	PRO/ Instructor	Prior to Regatta

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7	Inexperienced or disabled boat(s) lose control and get into difficulties which require external assistance.	B	C	2	Rescue boats patrol race area and watch out for boats in difficulty. RBs to maintain radio contact with Start boat	D	C		Yes	Rescue boats	Rescue /Start boat skipper s	
8	Crew member(s) fall overboard and require external assistance to locate and recover.	A	B	1	Rescue boat on patrol. Develop procedure for rescue. Training for Rescue boat crews	D	D		Y	Training crew.	Safety committ ee/Coa ch	
9	Crew member(s) trapped underwater in a capsized boat	A	A	1	Recue boat crew trained to carry out rescue. Adequate equipment carried by boat. le Safety Shears. Equipment check lists	B	D	3	Y	Che ck lists	Safety committ ee, Coach	
10	Inadequately prepared or maintained boats that are dangerous and likely to create a safety incident	E	D	4	No significant risk							
11	Missing boat(s) either during a race or failing to complete a race	B	B	1	Start boat to monitor boats on laps. All boats withdrawing to report to Rescue/start boat. Good lookout by RB crews.	D	C	3	Y		RB crews and PRO	
12	Dangerous interaction with commercial vessels or other recreational boats.	B	B	1	Warnings at Briefing, NOR Club racing program	D	D	4	Y		Safety committ ee.	
13	Personal injury to swimmers following a collision with a competitor, participant or official boat.	C	B	2	Rescue boat crew training. Competitors to be advised to watch out for swimmers at briefing.	D	D	4	Y		Race committ ee	
14	Potential collisions between boats of different classes in multi-class events.	C	B	2	Briefing, Race Rules. Individual responsibility	D	D	4	Y		Race Commit tee	
15	Electrocution of sailors as a result of low overhead power lines	C	A	1	• Erect warning signs near ramps Briefing and Safety Notice.	D	C	3	Y		Race Commit tee	

LCSC Risk Analysis.

2 - Race Management and Equipment.

Developed by H Urquhart & I. Skyring Date 21.12.14 Reviewed by. Date.

ID No.	Hazard	Initial Likelihood	Initial Sev	Initial Risk	Control	NEW Likelihood	New Sev	New Risk Rating	Accept Risk?	Resources	Person Responsible	Time-frame
1	Mechanical breakdowns / gear failure in rescue vessel(s) resulting in being unable to provide effective rescue capabilities.	C	B	2	Regular maintenance on boats. Crew training. Back up boats	E	E	4	Y		In place	
2	Fire/explosion (e.g. on Rescue Craft) resulting in personal injury to crew and inability to provide rescue service.	D	A	2	Abandon race and concentrate on dealing with the emergency. Bring out additional boats.	E	E	4	Y		PRO	
3	Prevailing weather conditions prevent rescue vessels being able to remain on station or fulfil their role.	B	B	1	Abandon race before weather conditions deteriorate to this stage. Keep weather watch on Rescue/Start boat. Use	E	E	4	Y	Smart phone weather apps.	PRO	
4	Injury to person(s) in the water from rescue and race official boat propellers.	D	A	2	Propeller guards fitted. Crew training	E	E	4	Y		Rear Commodore	
5	Inadequate or insufficient safety / rescue equipment provided by race / event organisers.	B	B	1	Safety Committee to regularly review rescue equipment and upgrade if necessary. Check lists to be used before launching boats	D	D	4	Y		Safety officer to arrange check lists	
6	Failure to conduct pre and post event boat counts resulting in missing personnel.	B	B	1	Conduct pre and post event boat check- ins for MAJOR regattas. Any retiring boat to notify start/rescue boats.	E	E	1	Y		Race committee to discuss for club races	
7	Failure by race officials to deploy rescue boats	B	B	1	Incident Management plan to be developed and	D	D		Y		Safety	

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ID No.	Hazard	Initial Likelihood	Initial Sev	Initial Risk	Control	NEW Likelihood	New Sev	New Risk Rating	Accept Risk?	Resources	Person Responsible	Time-frame
	as required by emergency circumstances.				implemented.						Officer	
8	Communications											
9	Loss of primary communications resulting in race officials being unable to provide and coordinate effective rescue services.	B	B	1	Use back up resources – phones/additional radios?					Investigate further resources		

LCSC Risk Management Analysis. Training

3 - Training - Prepared by: H. Urquhart and C. Hacker Date: 2015 Reviewed by: C. Hacker and H. Urquhart Date: 26.02.17

ID No.	Hazard	<u>Initial</u> Likelihood	<u>Initial</u> Severity	<u>Initial</u> Risk	Control	<u>New</u> Likelihood	<u>New</u> Severity	<u>New</u> Risk Rating	Is This Risk Acceptable? Yes or No	Resources	Person Responsible	Time-frame
1	Trainers/Coaches inadequately trained/ not certified with Blue Cards.	B	C	2	Coach/Committee to ensure all involved are adequately trained etc.	D	E	4	Y		Coach	
2	Injuries whilst lifting boats from storage racks	C	C	2	Boats to be moved under Coach/trainer supervision	D	D	4	Y		Coach/Trainers.	
3	Injury from Traffic whilst moving boats and sailboards from clubhouse to launching area and back again	D	A	1	Masts to be carried by 2 people, one on each end All trainees to be warned that the road is used by traffic and to take care. Coach or Trainer to Supervise movement of boats across the road. Consider appropriate warning signage	D	D	4	Y		Coach.	
4	Insufficient supervision of juniors in training exercises resulting in accidents or injury.	D	A	1	Coaching plan to be adhered to. Supervision at all times.	D	D	4	y		Coach	
5	Exposure to sunburn and de-hydration during instruction on water.	B	C	2	Trainees to be briefed on use of Sunblock and water and monitored during instruction.	D	D	4	Y			
6	Inadequate rescue facilities available.	C	B	2	No training to take place until adequate rescue boats are ready for use and on the water.	D	D	4	Y		Coach	

LCSC Risk Analysis.

4 - Off Water. - Developed by H Urquhart, D Chetwynd & C. Morey Date 10.3.15 Reviewed by. _____ Date. _____

ID No.	Hazard	Initial Likelihood	Initial Sev	Initial Risk	Control	New Likelihood	New Sev	New Risk	Accept Risk?	Resources	Person Responsible	Time-frame
1	Improper use of Boat storage racking resulting in injury.	C	B	2	<ul style="list-style-type: none"> • Only trained personnel to use equipment • Club will conduct training of personnel • Club will roster trained personnel on duty 	D	C	3	Yes		Equipment Officer	Pre-season
2	Persons sustaining injury from slipping on launching ramp.	C	C	2	Public area outside club responsibility. Warn competitors at briefing/NOR	D	D	4	Yes		NOR & Club program	
3	Theft or damage of participant's boats or gear due to poor security or storage of equipment.	C	C	2	Advice to secure equipment overnight in NOR, Briefing and club program.	D	D	4	Yes		NOR & Club Program	
4	Personal injury to sailors and public or property damage arising from persons and vehicles passing along the Esplanade road.	C	B	2	<i>Need for signage on road when sailing is taking place.</i> Advice in NOR, briefing and program	D	D	4	Yes		NOR & Club program,	
5	Equipment left lying around posing risk of injury.	D	C	3	Good housekeeping to be carried out. Boat owners responsibility.	E	E	4	Yes			
6	Sailors leaving rigging trailers on roads or at the water's edge unsecured, causing damage to vehicles, trailers, or the public.	D	C	3	Good housekeeping to be carried out. Boat owners responsibility.	E	E	4	Yes			
8	Inexperienced or careless persons re-fuelling power boats resulting in burns and property damage.(Top Shed)	D	B	2	All fuel transfers to be carried out at Top Shed/Fuel Storage area by responsible persons	E	C	4	Yes			
9	Failure of participants to use and/or officials to check sign-off sheets resulting in missing person going unnoticed				Not currently in use.							

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10	Personal injury and property damage arising from rigging accidents such as falling masts, objects falling from heights or wire breaking under tension.	D	B	2	Responsibility of individual boat owners. See NOR for shared use of beach and road.	E	C	4	Yes			
11	Glass or needle stick injuries to sailors in launching and rigging craft on uncleaned beaches and foreshores.				<ul style="list-style-type: none"> Wear shoes Add in to another section. 							
13	Careless loading / unloading and laying of course equipment may result in injuries.	D	B	2	Proper lifting techniques to be used. Safe stowage of gear on boats. Training of crews.	E	D	4	Yes			
19	Club members and guests under the influence of drugs or alcohol on premises.	D	C	3	<ul style="list-style-type: none"> Drug and alcohol policy to be adhered to at all times. RSA 	E	E	4	Yes			
21	Burns received from cooking equipment.	D	B	2	Proper supervision of kitchen practices	E	E	4	Yes			

LCSC Risk Analysis.

5 – Environment - incomplete

ID No.	Hazard	Initial Likelihood	Initial Severity	Initial Risk Rating	Control	New Likelihood	New Severity	New Risk Rating	Is Risk Acceptable?	Resources	Person Responsible	Time-frame
1	Injury to sailors and non-sailors in boat park from unfastened boats and equipment.	B	C	2	<ul style="list-style-type: none"> Boats must be tied down 	C	C	2	Yes	Signs, duty officers	Property Officer	Pre-race season
2	Non-compliance with OH&S regulations resulting in personal injury.											
3	Storage of equipment inappropriate for junior and senior members resulting in personal injury or property damage.											
4	Inadequately licensed or trained persons given access to or charge over the operation of mechanical equipment such as: <ul style="list-style-type: none"> Rescue Boats Fuelling Facility Winch cables 											
5	Insufficient fire safety measures in place such as supply of extinguishers and communicated fire drill procedures.				<ul style="list-style-type: none"> Regular fire extinguishers inspection and replacement 							
6	Electrocution of sailors and public as a result of low overhead power lines in rigging/ public areas and road crossings.				<ul style="list-style-type: none"> Erect warning signs near ramps Flags or insulated cable to replace overhead open conductors 							

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	Unsuitable storage of rescue, maintenance and safety gear resulting in poor repair and subsequent failure when used by officials or participants.											
7	Member, public and boat access points to the club in disrepair or unsafe condition leading to personal injury.											
8	Risks associated with use of club facilities for functions by members and public											
9	Insufficient attendance to spills and breakages which may cause to injury to persons.											
10	Injury, damage, complaints or antisocial behaviour associated with use of club for social functions.											
11	Damage and injury associated with dinghy masts falling over.				<ul style="list-style-type: none"> Drop and secure masts for boats stored on lawn/beach when winds are in excess of 25 knots 							
12	Maintain and review Safety Equipment register.											
13	Inadequate storage of hazardous materials/dangerous				<ul style="list-style-type: none"> MSDS on display on notice boards and on club web page 							

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	goods.											
14	External contractors that may be unfamiliar with club safety protocols.				<ul style="list-style-type: none"> Maintenance of tools and equipment must comply to Australian Standards 							
15	Unsafe boat trolleys and cradles to comply with appropriate standards.				<ul style="list-style-type: none"> Boat trolleys and cradles to comply with appropriate standards 							
16	Inexperienced Sail boarder launching and retrieving boards and sails.											
17	Injury to sailors and non-sailors in boat park from unfastened boats and equipment.	B	C	2	<ul style="list-style-type: none"> Boats must be tied down 	C	C	2	Yes	Signs, duty officers	Property Officer	Pre-race season