# NEW ZEALAND WATER SKI RACING ASSOCIATION INCORPORATED

# WATER SKI RACING RULES FOR SERIES RACES, NORTH ISLAND TITLES, AND NATIONAL TITLES



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New Zealand Water Ski Racing Association Inc

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## **Preliminary Provisions**

#### Introduction

The Rules of the New Zealand Water Ski Racing Association Incorporated (NZWSRA) provide for the **Racing Committee** to create rules which govern **Events** run by the NZWSRA. These Rules govern Series Races, North Island Championships, National Championships, and any other ski racing event organised by the NZWSRA which declares these Rules (or any part of them) to apply. River races (such as the Bridge to Bridge and Twin Rivers) have their own rules which are provided to entrants but will refer to parts of these Rules to avoid unnecessary repetition.

#### **Title and Commencement**

These Rules may be cited as the NZWSRA Racing Rules and come into force on 4th Day of August 2022 and continue to apply until they are revoked.

#### **Amendments**

- These Rules may be amended from time to time by the **Racing Committee** at a meeting convened for that (and any other) purpose. Any
  amendments shall be effective from the date the amended rules are
  available to be downloaded from the NZWSRA website or notified to
  members in accordance with the Rules of the Association.
- Where it is considered necessary because of safety reasons, the **Event Judge** may amend these Rules provided that any amendment shall only be effective if advised at a **Pre-Race Briefing** or a **Special Briefing** and shall only be effective for the races covered by that **Pre-Race Briefing** or **Special Briefing**.

#### Purpose

The purpose of these Rules is to provide **Members** with a set of rules which enable the NZWSRA to perform its functions and carry out its **Events** in a transparent, fair, safe, and consistent manner.

#### Overview

- 6 These Rules are set out in parts:
  - Part A The Organisation: this part details how **Event**s are to be organised, and the persons involved.
  - Part B Entries Classes and Licences: this part details the different classes in which competitors may race, the entry and licence requirements.
  - Part C Boats and Equipment: this part details the requirements relating to boats and equipment used while competing in **Event**s

Part D - Safety: this part deals with all aspects of **Event** safety.

Part E - Course Rules: this part covers the rules that apply for each Race.

Part F – Protests: this part deals with protests

Part G – Penalties – this part deals with penalties that apply for breaches of the Rules.

Part H - Scoring: this part details how points are scored.

## Interpretation

- 7 In these Rules, unless the context requires otherwise:
- 7.1 **"Able to Race"** for the purposes of rule 138 means the **Event Judge** is satisfied the competitors would have raced but for the cancellation of the **Race**.

"Alternative Briefing" means an alternative briefing arranged by a member who was not present at a **Pre-Race Briefing.** The fee payable for an **Alternative Briefing** is \$30 per competitor unless prior arrangements have been made and agreed to. Any fee is payable prior to the **Alternative Briefing**.

"Authority" means any local or regional governmental authority having jurisdiction over the local of the Event.

"Beach Marshall" means a person appointed by the Event Judge at an Event and who is responsible for the efficient launching and retrieving of boats to and from the water.

"Chief Judge" means a judge appointed by the Event Judge to oversee and be responsible for the judging of a Race. The Event Judge may be the Chief Judge.

"Chief Safety Officer" means a person appointed by the Management Committee to be the Chief Safety Officer for the Association.

"Chief Scrutineer" means a person appointed by the Technical Rules Committee as Chief Scrutineer who is competent to check boats and / or equipment for compliance with the Rules. Where the person appointed as Chief Scrutineer is not available to attend an Event, The Event Judge shall appoint a Scrutineer to act as Chief Scrutineer for that Event.

"Day Licence" means a licence issued by the Event Judge to any person after passing the relevant Day Licence test, and may be issued on such terms and conditions as the Event Judge thinks fit. Day Licences will only be issued to a person in respect of two Events per season, \$20 for the first and \$40 for the second. Further day licences may be issued at the discretion of the Race Day Committee, should the person not have had full use of their first two day licences e.g., boat failure meaning they didn't get to compete for a full weekend.

Drivers or observers competing on a **Day Licence** will draw the outside lane(s) and are not permitted to compete in MOC or Open classes, unless approved by the **Race Day Committee**.

"Driver's Licence" means a Driver's Licence issued by the NZWSRA and includes a Day Licence issued to a driver.

"Event" means a water ski racing series race, North or South Island Championship race or National Championship race organised by the NZWSRA or any other ski racing event organized by the NZWSRA and declared to be subject to these Rules (or part of them). For the purposes of a **Day Licence**, where two **Events** are held in the same weekend, an **Event** includes both days.

"Event Judge" means a Judge appointed by the Executive Chief Judge who assumes responsibility for overseeing the judging, timekeeping, and point scoring for any particular Event.

"Executive Chief Judge" means the person appointed by the Executive Committee of the NZWSRA as Executive Chief Judge and who is responsible for the appointing and removing Judges, timekeeping, and point scoring, and who appoints an Event Judge for any particular Event.

"F2 Boat" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Financial Penalty" means \$30 for the first breach of a rule at an Event and \$50 for any subsequent breach of the same rule at the same Event. A Financial Penalty may be waived by unanimous decision of the Protest Committee.

"In-Field Area" means the inside of a circuit defined by lines joining the outside of course buoys.

"Judge" means a person who has passed a judges test within the last three years and is appointed a Judge by the Executive Chief Judge.

"Management Committee" means the Management Committee appointed in accordance with the Rules of the Association.

"Member" means a member of the NZWSRA and includes a person who holds a current **Day Licence**.

"MOC Boat" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Novice Skier" means a skier who, two years prior to an **Event**, had never skied in an **Event**.

"Observer's Licence" means an Observer's Licence issued by the Association and includes a **Day Licence** issued to an observer.

"Open Driver's Licence" means a Driver's Licence endorsed as an Open Driver's Licence by the Executive Chief Judge.

"Open F1 Boat" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Open F2 Boat" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Proper Skiing Position" means the skier is in possession of the towing line and their weight entirely supported by their ski.

"Protest Committee" means a committee formed under Rule 108 and which must comprise the **Chief Judge**, and between one and three judges, decisions of which shall be by majority with the **Chief Judge** (if necessary) having a casting vote.

"Provisional Winner" is the skier(s) who first cross the finish line;

"Race" means a series Race, North Island Championship or National Championship or any other Race organised by the NZWSRA which declares these (or part of them) Rules apply.

"Race Day Committee" means a group of five members present at an Event, one of whom shall be the Event Judge who shall select four other members who shall be members of the Management Committee.

"Race Officials" means the Event Judge, at least two Judges, a Scrutineer, a Safety Officer, the Beach Marshall, the Starter, at least two Time Keeping Officials. Race Officials do not need to be members of the NZWSRA.

"Rescue Boat" means a boat suitable for rescue operations crewed by a driver and person with suitable medical training and which has a safety stretcher available for use.

"Safety Committee" means the Event Judge, Safety Officer, and one member of the Technical Rules Committee.

"Safety Officer" means any member appointed by the **Event Judge** to assist the **Chief Safety Officer**.

"Scrutineer" means a person appointed by the Technical Rules Committee to assist the Chief Scrutineer.

"SMOC Boat" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

**"SMOC F4 Boat"** has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

**"SMOC F5 Boat"** has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

**"SMOC F6 Boat"** has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

**"SMOC Motor"** has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Social Rope" means a ski rope which does not allow the handles to be further than 45 metres from the transom of the boat.

"Social Ski" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Special Briefing" means a meeting of all Race entrants held during an Event for the purpose of advising members of a change to the Rules applying for the remainder of an Event.

"Standard Bottom End" has the meaning set out in Appendix 2 – Technical Definitions and Requirements.

"Starter" means a person with reasonable experience of water ski racing and who is appointed and briefed by the Chief Judge.

"Time Compensation" means the amount of time, which can be conclusively determined, lost by a Team through the fault of another Team, and is measured from the time between the skier(s) falling and the time the skier(s) regain a proper skiing position.

"Time Keeping Official" means a person appointed by the Chief Judge to record competitors' times. Competitors must not disturb Time Keeping Officials during a Race.

"Time Penalty" means the percentage stated in Appendix 4, which is applied to the Provisional Winner's time.

- 7.2 **Age**: the age of a skier is determined by their age as at 30 June in the year in which the season commences.
- 7.3 **Singular and Plural**: Singular words include the plural and vice versa.
- 7.4 **Gender**: words denoting the masculine include the feminine and vice versa.
- 7.5 **Headings**: Headings are used in these Rules for convenience and do not affect the interpretation of the Rules.
- 7.6 **Discretion:** Where these Rules allow for discretion to be exercised, unless stated otherwise, that discretion shall be exercised by a **Race Day Committee**. Decisions shall be by way of a majority with the **Event Judge** having a casting vote. Any of the members of the **Race Day Committee** may obtain guidance from any other person.
- 7.7 **Matters of Fact:** Where these Rules call for matters of fact to be determined, unless the context requires otherwise the matter of fact shall be determined by a **Race Day Committee**. Any members may obtain guidance from any other person.
- 7.8 **Rules of the Association:** Where any term used in these Rules is defined in the rules of the NZWSRA that term shall have the same meaning as that defined in those rules unless the term is also defined in these Rules.

## Summary

To be able to compete in a Race:

- (a) You must be a **Member** of the NZWSRA.
- (b) The **Race** must have been organised in accordance with Part A.
- (c) You must have entered the **Race** in accordance with Part B Classes, Entries and Licences on page 7.
- (d) Boats and Equipment must comply with Part C Boats and Equipment on page 11.

#### While competing in a Race:

- (a) You must comply with the Safety Rules set out in Part D Safety on page 11.
- (b) You must comply with the Course Rules set out in Part E Course Rules on page 14.

#### After a Race:

- (a) Protests will be dealt with in accordance with Part F Protests on page 18.
- (b) Penalties and Sanctions will be imposed in accordance with Part G Penalties and Sanctions on page 19.
- (c) Points will be calculated in accordance with Part H Scoring on page 21.

#### Part A - Administration

## **Organising Events**

- The **Management Committee** shall be responsible for organising **Events** but may delegate any aspects of **Event** organisation.
- 9 To hold an **Event** the **Race Officials**, the **Rescue Boat**, and sufficient course boats must be present.
- 10 Inter-communication devices must be available to **Race Officials** and the **Rescue Boat**. Competitors may listen to communications on such devices unless instructed not to do so.
- A programme of **Events** shall be published prior to the commencement of a season together with the dates and venues. The programme may be subject to such qualifications as considered necessary.
- A schedule of races for each Event should be made available at least 7 days prior to the **Event**. The **Race Day Committee** reserves the right to alter the schedule having regard to the entries received and / or weather conditions.

Prior to the start of any **Event**, the **Event Judge** shall ensure an Event Compliance Sheet has been completed.

# Part B – Classes, Entries and Licenses

#### Classes

14 Entries are open to the following classes:

Class	Entry Restriction
Open Formula 1	Open F1 Boat.
Open Formula 2	Open F2 Boat
МОС	MOC Boat.
Worlds F2	F2 Boat, or a SMOC F4, F5 or F6 with a low emission (CARB
	rated) engines
Formula 4	SMOC F4 Boat
2 Up	Any Boat, two skiers.
2 Up 60 MPH	Any Boat, two skiers
Formula 5	SMOC F5 Boat
Formula 6	SMOC F6 Boat
Masters	Skier must be over 40 years of <b>Age</b>
Under 19	Skier must be under 19 years of <b>Age</b> .
Junior	Skier must be under 16 years of <b>Age</b> .
Sub-Junior	Skier must be under 13 years of <b>Age</b> .
60 MPH	Any Boat, any skier.
70 MPH	Any Boat, Any Skier
Novice	Any Boat, Novice Skier
Social	Any Boat, Social Ski, Social Rope
Tadpole	Any Boat, Skier must be under 10 years of Age.

The maximum time of races for National **Events** is:

Men's Open F1 & F2, & MOC - 1 hour + 1 lap

Men's SMOC – 45 minutes + 1 lap

Women's Open – 45 minutes +1 lap

Women's MOC & SMOC – 45 Minutes + 1 lap

16-19 years 45 minutes + 1 lap

Junior Boys & Girls 30 minutes + 1 lap

Sub Juniors Boys & Girls 15 minutes +1 lap

Novice, Masters, 70MPH, Tadpoles & Social 15minutes + 1Lap

2-Up & 2-Up 60MPH - 5 laps

The final lap may be declared if the lead boat is within 30 seconds of the race time above.

- A boat may enter a class higher than the boats specification. For example, a **SMOC F6 Boat** may enter Formula 4. An **F2 Boat** may enter Open Formula 1. SMOC boats may also enter Worlds F2.
- Where the number of entrants is sufficient (at any stage of the ski racing calendar), the above classes will be split into male and female classes and, if necessary, points will be reallocated accordingly.
- A dispensation may be sought from these Rules by making an application in writing to the Racing Committee 14 days before it is required, using Form RC12 Application for Dispensation. The applicant will be informed in writing of the outcome. The outcome must be posted to NZWSRA members before the Event.
- For Tadpoles, the **Chief Judge** may determine the course. Helmets may not be required. All skiers must be on the same form of ski. No dropping skis.
- Teams entering the 60 or 70 MPH class (including 2Up 60 MPH) must comply with the following rules:
  - (a) Boats must not exceed 60 mph (in 60MPH or 2UP 60 MPH) or 70 mph in the case of 70 MPH class.
  - (b) In the 60 or 70 MPH class boats may only tow one skiers. In the 2UP 60 MPH class boats must tow two skiers.
  - (c) Competitors must carry a Global Positioning System (GPS) supplied by the NZWSRA during the Event to determine Maximum Speed, Distance Travelled and Time Taken.
  - (d) Directly before **Race** start, **Race Officials** will "reset" or "zero" the "Max Speed" and "Trip" of the allocated GPS. The GPS is to be placed in the boat in a position to receive GPS signal at all times. A Velcro strip will be added to the back of all GPS units to aid the attachment of the unit to the boat. The GPS will be checked and max speed breaches noted by **Race Officials** at the end of the **Race**. The driver is the only crew member to read the GPS in the boat. The observer must keep full attention on the skier at all times. It is the responsibility of the crew to start the GPS before leaving the beach and stop it when the **Race** is completed (i.e. when the skier is back in the boat).
  - (e) All GPS units must be returned the **Chief Judge** (or other designated person) as the competitor leaves the water.

- (f) Appeals or protests will not be permitted on GPS readings or failure.
- (g) No GPS assisted speed control over the boat is to be used.
- (h) If required the organisers of the Event shall homologate the course using a GPS. The time allowed for traveling the course or lap can be made known to any competitor.
- (i) A time penalty of 10 seconds will immediately be imposed for breaching the speed limit per **Race**, plus, for every 0.1 mph increment over 60 or 70 mph, 1% of points will be deducted.
- (j) For 60 MPH Any driver found to exceed 65 mph twice, or 70 mph once in the season, will not be eligible to compete in the 60 mph class for a period of 12 calendar months.
- (k) For 70 MPH Any driver found to exceed 75 mph twice, or 80 mph once in the season, will not be eligible to compete in the 70 mph class for a period of 12 calendar months.
- (I) Grids for the 60 and 70 MPH races will be as follows:
  - (i) The first **Race** of the season will be by random draw;
  - (ii) For subsequent **Races**, the lowest points scorer will have lane 1, the highest will have the outside lane, all others according to their points.
  - (iii) For North Island and National Championships the draw will be random on day one. Day two will be determined according to the points from day one; the lowest points scorer will have lane 1, the highest will have the outside lane, all other according to their points.

## **Entries**

## **Eligibility**

- To be eligible to enter, all competitors must be **Members** and must hold the appropriate licences.
- 22 Entries cannot be accepted in respect of any competitor who has not paid penalties from a prior **Event**, or who is subject to disqualification.

#### Method

- 23 Entries for an **Event** are to be submitted online via the NZWSRA Website (www.skirace.co.nz). **Members** will be advised when online entries close. Any changes to entries must be notified prior to entries closing.
- 24 Payment for entries must be made two working days prior to the **Event**.

## **Changes / Late Entries / Withdrawals**

- The person responsible for entries may, in their absolute discretion, accept entries after online entries close but the entry will be subject to a penalty of 50% of the fee payable for the entry. The entry will not be accepted without payment of the fee and penalty.
- A competitor who has entered a **Race** in an **Event** may, at the absolute discretion of the person responsible for entries, amend that entry provided that the amendment may not be accepted if there is not adequate time to make the amendment requested.
- Any team withdrawing their entry will receive a credit for any fees paid if they withdraw before online entries close. Otherwise, they will receive a credit of 50% of any fees paid.
- Where any **Event** or **Race** is cancelled by the **Event Judge** or NZWSRA, any entry fee (but not penalty) paid will be credited.

#### Licences

#### **Skiers**

29 Being a competitive member of the NZWSRA licences members to compete as a skier.

## Observers

- Observers must be over 16 years of Age and hold a current Observer's Licence or Driver's Licence issued by the NZWSRA in accordance with the procedures prescribed by the Racing Committee
- The Licence may be issued or become subject to such conditions as the Racing Committee think fit.

#### **Drivers**

- Drivers must be over 18 years of **Age** and hold a current **Driver's Licence** issued by the NZWSRA in accordance with the procedures prescribed by the **Racing Committee**.
- The licence may be issued or become subject to such conditions as the **Racing Committee** think fit.
- Drivers who do not hold an **Open Driver's Licence** are not permitted to compete using an Open or MOC boat, unless exemption is given by the **Racing Committee**.

#### Fees

The fees payable for a skiers licence, **Observer's Licence** or **Driver's Licence** and SMOC fees are disclosed on the Application Form.

#### **International Competitors**

- Holders of an international licence can apply to the **Executive Chief Judge** (or a person authorised by the **Executive Chief Judge**) for approval to compete in an **Event** in the way in which that person could participate in their home country. Approval to compete may be subject to such restrictions as the person issuing the licence considers appropriate.
- The cost to compete in each **Event** will be NZD\$50.
- 38 International competitors are not eligible to be awarded National Titles.

#### Licence Tests - Drivers and Observers

- Licence tests shall be as set by the **Racing Committee** and shall comprise two parts:
  - (a) the applicant's theoretical knowledge will be tested by completion of a written test; and
  - (b) upon successfully completing the theoretical test, the applicant's practical skills may be tested at the next available opportunity.

## Part C – Boats and Equipment

- Before being able to participate in any **Race**, boats and equipment must comply with the requirements set out in Appendix 1 Rules Relating to Boats and Equipment and Appendix 2 Technical Definitions and Requirements.
- 41 Although the NZWSRA will check boats and equipment prior to any Event, the owner and / or driver of the boat or equipment is ultimately responsible for ensuring the boat and / or equipment is in good working order and safe to compete.

## Part D - Safety

## General

- The **Safety Committee** may prevent any competitor, at any time, from competing or continuing to compete if, in the opinion of the **Safety Committee** the competitor poses a risk to themselves or to any other competitor.
- The **Safety Committee** may impose any conditions it considers appropriate before allowing a competitor to compete in a Race, including requiring a competitor to obtain a medical certificate on terms satisfactory to the **Safety Committee**.
- A **Safety Officer** may recommend the **Chief Judge** stop a Race if conditions are considered unsafe.

## Eyesight

A driver or observer who requires corrective lenses under normal circumstances must wear corrective lenses while competing in an **Event**.

#### **Rescue Boat**

- No **Race** shall be permitted to start or continue if a **Rescue Boat** is not available.
- If a competitor requires transportation in the **Rescue Boat** the **Chief Judge** shall stop the **Race** by displaying the red flag. The **Chief Judge** will decide whether or not the **Race** will be restarted. The team responsible for the **Race** being stopped shall receive a DNF.

#### **Team Communication**

- The driver and observer must understand and agree upon hand signals required to safely compete in a Race. It is recommended that drivers and observers at least be able to communicate instructions to decrease speed, hold speed, move in or out of lanes, and to retrieve a fallen skier.
- Skiers and observers must understand and agree upon hand signals required to safely communicate instructions to decrease speed or hold speed.

## Alcohol / Drugs

- Competitor's breath alcohol levels may be checked at any time during or before an **Event**. Any competitor with a breath alcohol level of more than zero will not be allowed to compete for the remainder of the day.
- Any competitor who consumes alcohol within 10 hours before or during an **Event** will not be allowed to compete for the remainder of the day.
- Any competitor who, in the opinion of the **Safety Committee**, is adversely affected by the influence of alcohol or drugs (whether or not measurable) will not be allowed to compete until the **Safety Committee** is satisfied that the competitor is no longer adversely affected.

## **Scrutineering**

- 53 All boats and equipment must be checked for compliance with these Rules.
- Spot checks may be made at any time during an **Event**.
- Although boats and equipment will be checked, scrutineering is not acceptance of compliance. The owner and / or driver remains responsible for ensuring boat compliance, and the owner and / or user of equipment remain responsible for ensuring equipment compliance.
- If a boat or equipment is checked and found to be non-compliant with these Rules the owner or driver may request the Event Judge waive compliance at the Event where non-compliance is identified. Any request will be

determined by a Race Day Committee who may only approve the request if the non-compliance is not:

- (a) The same non-compliance from an earlier Event (unless beyond the control of the owner or driver);
- (b) safety related; or
- (c) potentially performance related, unless others present at the Event who may be affected by any waiver have agreed to the waiver.

Compliance will be checked at the next Event and if the boat or equipment remains non-compliant the points from the non-compliant races at the earlier Event will be replaced with DNS.

## **Briefing**

- To be able to compete, all competitors must have, signed a NZWSRA waiver (in a form prescribed by the **Management Committee**), performed a complying breath test, and attended an entire **Pre-Race Briefing**, or have attended an **Alternative Briefing** given by the **Event Judge.**
- At a **Pre-Race Briefing** or **Alternative Briefing** competitors will:
  - (a) be given details of the course including the position of the competition area, location of turn buoys, course direction, the finishing buoy, length of the first straight, and any other details of the course.
  - (b) be advised of any changes to the rules which apply to the **Event**;
  - (c) be given the opportunity to ask questions about matters raised at the briefing.
  - (d) if the **Event** is a two-day **Event**, whether there will be a **Pre-Race Briefing** on the second day.
- The **Event Judge** shall ensure details provided at a **Pre-Race Briefing** or **Alternative Briefing** are recorded on the Event Compliance Sheet.
- After the **Pre-Race Briefing** competitors will be given the opportunity to familiarise themselves with the course.

#### **NZWSRA Policies**

All competitors must adhere to the policies of the NZWSRA.

#### **Accident Forms**

The **Chief Safety Officer** shall draft a report on any accident or incident which in the opinion of the **Chief Safety Officer** should be documented and provide that report to the **Event Judge** as soon as practicable. The **Event Judge** shall determine what action (if any) should be taken.

## Part E – Course Rules

## Introduction

This part sets out the rules to be followed from the point where boats enter the water to the point where they exit the water (or park on the beach).

#### Start

- Lane / grid positions will be made available to competitors as soon as reasonably practicable before a **Race**, and will be determined as follows:
  - (a) lanes will be drawn firstly according to class, and then by competitor. On the first day of an **Event** the draws will be random. On the second day they will be reversed.
  - (b) cross entries will be grouped with the highest class entered per the table in rule 14.
  - (c) where considered appropriate, a number of grids may be used.
  - (d) a driver who does not hold an Open Driver's Licence will always draw the outside lane. If there is more than one, they will together draw the outside lanes randomly on the first day and reversed on the second day.
- 15 minutes prior to the start of a **Race** a siren, horn, or other means of indication will be sounded and a yellow flag will be raised. This indicates competitors have 10 minutes to launch their boat and be leaving the boat ramp towards the start line. Competitors should ensure they know their lane and grid position. The ramp may be closed 5 minutes before the **Race** starts. Any boats which have not started towards the start line may not be permitted to compete in that **Race**.
- All team members must be wearing helmets and buoyancy vests at any stage while their boat is on the plane or within 10 metres of the circuit.
- Five minutes before the start of the **Race**, the start boat will raise two flags (the green flag and a National flag).
- Boats must start in the lane and grid position allocated and should therefore group near the start boat in the order allocated. Lane #1 starts closest to the Start boat unless advised otherwise at the **Pre-Race Briefing**.
- Boats must be at least 10 metres apart at the start of the **Race** but must not be more than 15 metres apart.
- 30 seconds before the **Race** starts, the green flag on the start boat will be lowered. Skiers may enter the water. Ski ropes may only be run out after the green flag has been lowered, but boats must remain behind the start boat and / or start buoys until the National flag is lowered.
- Boats which have run out their ski ropes before the **Race** starts must not accelerate / increase engine revs above idle or bow lift until the race starts.

- If a start is delayed for any reason, the yellow flag will be raised. Boats must slowly retrieve their skiers and remain in the start area. As soon as the **Race** is ready to be restarted, the yellow flag will be lowered and the two start flags will be raised. The procedure in Rules 67 to 74 apply, except that the two start flags will indicate three minutes to the start of the **Race** (i.e. 2 ½ minutes until the skiers may enter the water).
- 73 The **Race** starts when the National flag is lowered.
- If the start has two or more grids, the above applies to the first grid. For the second grid:
  - (a) skiers may enter the water and ski ropes may be run out after the National Flag for the first grid has been lowered.
  - (b) the National Flag will be raised.
  - (c) boats must remain behind the start boat until the National Flag is lowered again, which will be 30 seconds after it was lowered for the previous grid.
  - (d) this procedure will continue until all grids have been started.

## **During the Race**

- Observers must remain in the cockpit of the boat and keep the skier under observation at all times.
- Skiers must not fasten their tow rope or handles to their body. Doing so will result in disqualification.
- 77 If you miss a start:
  - (a) your orange flag must be raised;
  - (b) the boat must slow to idle and turn to return towards the skier to attempt another start. Wide and / or fast turns will result in disqualification.
  - (c) your orange flag must be lowered once the skier has successfully started.
- If the first straight of the course is less than 2km, boats must maintain their lane positions until they have completed the first corner unless determined otherwise by the **Event Judge** and a **Safety Officer**, and competitors advised at briefing.
- 79 Skiers must remain in the wake of the boat.
- Where two or more boats are in the same lane, the trailing boat must remain 100 metres behind the skier of the leading boat.
- When crossing lanes, your boat and skier(s) must maintain a clearance of least:
  - (a) 20 metres behind any skier(s);

- (b) 5 metres to the side of any boat or skier;
- (c) 100 metres in front of any boat.
- Boats must be at least 5 lateral metres apart from any other boat or skier. This rule is subject to rule 69 and rule 88.
- All course buoys must be passed on the outside. Missed buoys may only be recovered on the same lap on which they were missed by carrying out a left turn through the infield where it is safe. A right turn shall result in disqualification. Failure to pass all buoys on the outside means the lap was not completed and will not be recorded by the timekeepers.
- Boats may only enter the **In-Field Area** when retrieving a fallen skier, recovering a missed buoy, have retired, or have completed the **Race**. Any boat re-entering the circuit from the **In-Field Area** must give way to boats on the circuit.
- From 100 metres before a corner and until the skier completes the corner, boats on the inside must not force other boats out wide, and boats on the outside must allow room for boats on the inside.
- In the event of a boat broaching or hooking and where the skier is unable to maintain a Proper Skiing Position the team will be disqualified for the rest of the **Race**. The **Chief Judge** will decide whether the driver will be allowed to compete for the remainder of the **Event**. The boat must be rescrutineered.
- 87 If the skier falls during a **Race**:
  - (a) the observer must raise the orange flag.
  - (b) the boat must be off the plane before turning to return to the skier.
  - (c) the direction of the turn to return to the skier must be in the safest direction,
  - (d) any boat returning to a skier must yield right-of-way to other boats.
  - (e) if there is a risk of the ski rope becoming tangled with another competitor the rope must be retrieved.
  - (f) physical contact with the skier is permitted for the purpose of replacing equipment, but the propeller must not be rotating.
  - (g) the orange flag must not be lowered until the skier is in the **Proper Skiing Position**.
  - (h) If a skier falls on a corner, and the safest line to restart the skier means one of the turn buoys will be missed, rule 83 shall not apply if the skier skis as close as reasonably practicable to the inside of the turn buoys.
- If another skier has fallen, that skier may be passed on whichever side is safest. The driver or observer must acknowledge the safety flag or a fallen skier by raising their hand. A lateral distance of at least 10 metres must be left on either side of any stationery boat, skier, or ski gear in the water.

- A yellow flag will be raised by a course boat to indicate a fallen skier or other safety related issue. The driver or observer must acknowledge the safety flag.
- 90 If a red flag is raised during the **Race**, you must stop, idle back to and retrieve your skier, and idle towards the nearest course boat away from the incident requiring the attention of the **Rescue Boat** or event which gave rise to the red flag being raised.
- A blue flag will be raised on instruction of the **Chief Judge** when the leading boat has one lap to go.
- A chequered flag will be waived from a course boat or such other place as advised at the **Pre-Race Briefing** to indicate you are about to complete the **Race**.
- The team completes the **Race** when their skier, being in a **Proper Skiing Position** passes the finish buoy while the chequered flag is raised.
- When passing the chequered flag, the skier must be in a **Proper Skiing Position**, or regain a **Proper Skiing Position** without falling.
- The time allowed for all boats to pass the chequered flag is 5 minutes plus the time taken by the winning boat to complete its last lap. Any boat not finished within this time will receive a DNF.
- After passing the chequered flag boats must proceed to the **In-Field Area** to an area where skiers can be dropped safely, bearing in mind that subsequent boats may need to re-pass the finish buoy. At appropriate venues it may be possible to finish on the outside of the course, the **Event Judge** shall advise at briefing if this is to be the case. Boats retiring before the end of the Race (including those who finish first in a split time race) who have retired on the outside of the course may return to the ramp if they do not impede those boats still racing.
- 97 Skiers must hold their handles until their boat returns to retrieve them.
- 98 Skiers must be retrieved from the water as soon as possible and in a manner which reduces the risk of other boats becoming tangled with tow lines. The Orange Flag must remain up until the skier is retrieved from the water.
- As soon as the skier is retrieved from the water (either after the **Race** or upon retiring from the **Race**) team members may remove their helmets for so long as they remain in the centre of the **In-Field Area** and the boat is stationery or at idle.

#### After the race

Once all skiers have been retrieved a red flag will be raised by the Rescue Boat. Once the red flag is raised, boats may return to the boat ramp.

### **Flags**

Various flags are used before, during, and after a **Race**. The table below describes each flag, what it means, and when it must be used.

GREEN Prestart and identifying flag for Judges, safety boats and

Rescue Boats. Dimension: 50x50cm.

YELLOW Caution. The **Judges** and safety boats will raise the yellow

flag when a skier has fallen, when a skier is in the water or in any case of interference after the Start Flag has been

lowered.

The yellow flag will also be raised at the sound of the 15 minute warning and lowered 5 minutes before **Race** start.

Dimension: 50cmx50cm.

RED Race stopped. The Judges and the safety boats will raise

the red flag to stop the **Race**. Dimension: 100x100cm.

The red flag will be raised on the completion of a **Race** to signal to competitors that the **Race** is completed and they

are cleared to return to the pit area.

BLACK Disqualification. The black flag is used to notify a

competitor that he has been disqualified and that he must retire from the **Race**. When the black flag is shown the number of the team being disqualified should be displayed in figures not less than 300mm high at a point designated by the **Chief Judge**. Dimension: 100x100cm.

BLUE One lap to go. Dimension 100x100cm.

CHEQUERED Finish. The chequered flag indicates the end of the Race.

Dimension: 100x100cm.

## Part F - Protests

#### Introduction

The protest provisions are provided as a means of determining whether competitors have complied with these Rules.

Any competitor may protest against another competitor. It is expected that most circumstances which may give rise to a protest will be able to be dealt with through discussion and without resorting to the formal procedures set out below.

## **Lodging a Protest**

104 Protests must be lodged with the **Chief Judge** using Form RC8 (in duplicate) and must be accompanied by a protest fee of \$30.00. The

protest fee will be refunded if the Chief Judge considers the protest to b	e
reasonable.	

- The **Chief Judge** may initiate a protest if, in the opinion of the **Chief Judge** a competitor has breached the Rules.
- The details included on Form RC8 should be sufficiently comprehensive to allow the protest to be determined fairly and quickly.
- 107 Protests must be lodged within 30 minutes after the completion of a **Race**.

## **Determining a Protest**

- The **Chief Judge** shall form a **Protest Committee** to determine the protest in such manner as the **Protest Committee** determine. If the **Protest Committee** believe a competitor may have breached the Rules that competitor shall be given the opportunity to be heard by the Protest Committee before a decision is made.
- No person involved in the protest shall be involved with determining the protest or any appeal.
- No competitor shall discuss the protest with any member of the **Protest**Committee unless requested to do so.
- The decision of the **Protest Committee** shall be in writing and signed by the **Chief Judge**. It will be delivered to competitors only as determined by the Chief Judge. [Note that subject matter around judging decisions may be used for educational purposes]
- 112 If the **Protest Committee** determines the Rules have been breached, a penalty must be imposed in accordance with Part G Penalties and Sanctions.

#### Appeal

- The decision of the **Protest Committee** may be appealed to the **Management Committee** within 7 days, but the appeal is restricted to the interpretation and application of these Rules. The **Protest Committee's** findings of fact are final. Any appeal to the **Management Committee** shall be accompanied by a fee of \$100. The fee will be refunded if the appeal is upheld, either in full or in part.
- In determining any appeal, the **Management Committee** may obtain such advice as it considers appropriate.

## Part G – Penalties and Sanctions

- Penalties will be imposed for any breach of these Rules in accordance with the procedure set out in this Part.
- Financial Penalties apply to the whole team unless stated otherwise. It will be up to the Team to decide who pays the penalty.

- 117 Where a single incident results in more than one penalty, only the more serious penalty applies.
- Penalties shall not apply if the incident which gave rise to the penalty was caused by actions of another team and the breach was necessary for the safety of competitors.
- If a penalty or sanction is specifically provided for in a Rule, only that penalty or sanction applies.

#### **Time Penalties**

120 A **Time Penalty** will be applied for a breach of any rule described in the "Start" rules (Rules 64 – 74) commencing on page14, except for Rule 66 and Rule 69.

#### **Financial Penalties**

121 A **Financial Penalty** will be imposed for any breach of the rule described in the "After the race" rules commencing on page 17.

#### **Time and Financial Penalties**

- 122 A **Time Penalty** and a **Financial Penalty** will be imposed for:
  - (a) any breach of rules described in "During the Race" (Rules 75 99) commencing on page 15.
  - (b) a breach of Rule 66 or Rule 69.

#### Sanctions

- Any competitor team or competitor who breaches the same rule three times during an **Event** shall not be permitted to compete for the remainder of the **Event**.
- Any competitor who acts in an unsportsmanlike manner may, upon the unanimous decision of the **Race Day Committee**, be disqualified from competing for 24 hours.
- Any competitor who communicates with a Judge in a disrespectful manner will be disqualified from competing for 48 hours.
- Any competitor who repeatedly communicates with a Judge in a disrespectful manner (whether or not at the same **Event**) will be disqualified from competing immediately, and for the subsequent six **Events**
- Any team which competed in breach of the licencing provisions shall not receive points, a DNS, or a DNF. (i.e., as if they had neither entered nor competed) and shall be fined \$50.

## Part H – Scoring

## Series Races / North & South Island Championships / National Championships.

Points for each class / Race are determined according to the following method: The Provisional Winner is the skier(s) who first crosses the finish line.

The official winner is the skier with the fastest average lap time (determined by their time in seconds (including any penalties) divided by the number of laps completed). The official winner receives 1000 points.

All other skiers' points are calculated according to the following formula:

1000 x A / B:

A = Official Winners average lap time

B = their average lap time

Examples are provided in Appendix 3.

- Times are recorded to within 1/100<sup>th</sup> of a second. Points are rounded to two decimal places.
- The time taken to complete a **Race** is the time from the start to the time the skier(s) cross the finish line, less any **Time Compensation**.
- Times used to calculate average lap times are the times taken to complete a **Race** plus any time penalty imposed.
- Any time penalty imposed will be a percentage of the Provisional Winner's time.
- Times recorded by **Race Officials** will be the only times recognised.

## **Provisional Results**

Provisional results may be made available as soon as practicable after each **Race**.

#### **Final Results**

Final results will be made available as soon as practicable but not before any protest has been determined by the Protest Committee, or any appeal to the Management Committee.

#### **Placings**

- Overall series placings are determined by the aggregate of all points scored less the two lowest scores. Lowest scores may be a score of zero, a DNS, or
- Placing for North or South Island Championship and National Championship events will be determined by the aggregate of points scored over the two days.

#### **Cancelled Races**

138 If a series **Race** is cancelled those competitors present, entered, and **Able to Race** will be given an average of their points calculated over the whole
season according to the following formula:

TP / RC where:

TP = Total points from all races completed (ie excluding DNS or DNF)

RC = the number of races completed.

- Until average points can be calculated, an "A" will be shown on the points table.
- 140 If the North Island championship is cancelled, total points scored in the Series Races (without average points or dropping points) will be used to determine the results.
- If a Race is stopped and at least 50% of the race has been completed the times and lap counts will be those recorded at the last completed lap before the race was stopped and the race shall be deemed completed.
- If a Race is stopped before 50% complete it shall be restarted. Grids times and laps will be as follows:
  - (a) If the lead boat did not complete two laps the Race shall be restarted with no change to grids and no record of times or laps).
  - (b) If the lead boat completed two laps the Race will be restarted. The boat with the fasted average lap time shall draw pole. All other grids will be relative to their average lap times. The duration of the restarted Race shall be the original race length less the time recorded by the lead boat when it completed the lap before the race was stopped, plus one lap.
  - (c) Final times and laps will be the aggregate of the stopped Race(s) and the restarted Race(s).
- 143 For the purposes of determining whether a Race is 50% complete:
  - (a) any reference to "plus one lap" shall be ignored
  - (b) the time or lap shall be the time or lap of the last completed lap and shall include the times and laps of the original stopped Race and any restarted Race.

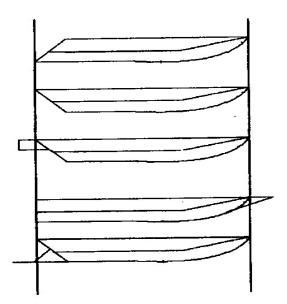
# Appendix 1 – Rules Relating to Boats and Equipment

## **Boat Requirements**

#### Length

The boat used for towing skiers must not exceed 6.5 metres in overall length. The overall length is measured between the two perpendiculars at the extremities of the structure, including the shell or skin, which constitutes a floating vessel, but excluding any extensions as illustrated. A maximum of 1 metre is allowed for accessories (ie the whole unit is not to exceed 7.5 metres).

# Figure 3



#### Design

The design of a boat or combinations of hull and the power source must be compatible for the speeds traveled during an Event. The owner must provide proof of boat handling if requested. Motors exceeding 200 Kilograms in weight will not be permitted on boats with length less than 17ft, (5.182mtrs).

#### Name

Boat names shall not be of such a nature as to cause embarrassment or discredit the sport.

## **Towing Eye**

Shall be adequate for towing the boat when waterlogged.

Shall be strongly fixed to the structure, not merely to the decking. It should be remembered that this item may have to carry the whole weight of the waterlogged boat.

## Painter/Mooring Lines/Bow Lines

All boats must carry a suitable tow rope. If the tow rope is attached to the boat during racing it shall not be long enough to reach the propeller.

The painter shall be attached to the towing eye and shall be secured in the cockpit, preferably by jamming cleat to avoid the crew having to climb onto the bow to accept a tow.

#### **Sharp Edges**

All mascots, lights, bow fittings and other sharp edges shall be adequately protected or removed.

Fixed aero foils or adjustable aero trimming devices attached to the hull or engine must be securely fixed and stayed.

#### Windshields

Shall be well secured

Shall not be of plate or ordinary glass

Scrutineers may order the removal of any windshield that appears dangerous or approve the addition of approved safety films and similar products.

No part of the cockpit or windshield shall be enclosed to cover or surround the crew or part thereof, including any item or fitting which may cause entrapment. i.e., seat belts, foot holds, rope holds, and the like.

#### **Steering Gear**

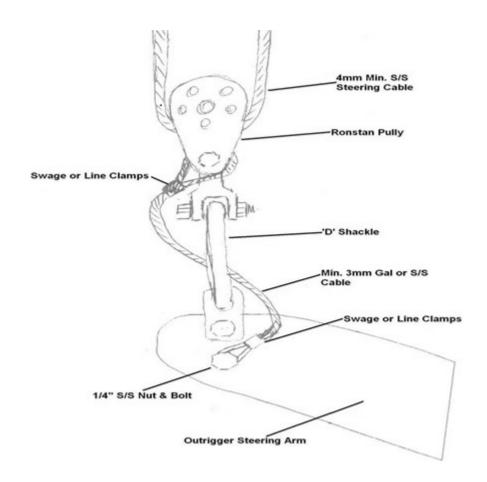
- (a) Steering wheel and drum shall be secured and locked onto the shaft. The steering drum and shaft may have a hollow centre but it must maintain its required strength and integrity intended to be able to operate the steering full and free with no risk of failure.
- (b) Steering wheel unit shall be fixed to, or through, the dash panel or a steering mounting bar and shall be through bolted and locked.
- (c) Steering wheel strength shall be checked, if the wheel is split or cracked the wheel shall be rejected. Wheels of the laminated rim type shall be checked for wear caused by the breakdown of the laminations. Plastic composition wheels shall be checked for early fatigue where the spokes join the boss to ensure the wheel cannot be forced to spin on the internal boss without undue minimum of pressure.

- (d) Where the shackles or such devices are used to attach the steering to outboard engines, they shall not be of a non-ferrous metal. Scrutineers shall satisfy themselves that this is so even if the shackles are painted.
- (e) Pulleys shall operate freely and wing pulleys to be a minimum sheave diameter of 45mm with a breaking load of 1,500kg or greater.
- (f) The steering pulley needs to have a safety wire attached to the steering like the diagram under paragraph cc below. It is recommended that steering components be positively lock-wired where possible to prevent steering failure.
- (g) Steering wires shall be in good condition and shall have free running throughout their path, with adequate tension throughout their travel.
- (h) Wires shall be secure and where doubled to form an eye shall be around a thimble and shall be secured with two bulldog clips or equivalent.
- (i) Locking wire to be fitted to all shackles, turnbuckles, stretching screws etc.
- (j) There shall be no undue degree of play in the steering system, but the steering wires shall not be over-tightened in a "piano-wire" fashion.
- (k) For outboards attachments to the engine, for inboards -attachments to tillers and/or quadrants and their fittings to the stock shall be in good condition and secure.
- Engine or tiller and rudder shall operate with full and free movements in the correct sense and shall be fitted with stops to prevent over-control.
   Steering angle shall be sufficient to safely navigate the course.
- (m) Rudder assemblies, gland keys etc., shall be in good condition and secure with lock nuts and/or tight split pins.
- (n) For rod steering, the rods are to be sufficiently rigid to prevent undue flexing.
- (o) Rack and pinion steering shall be in good mechanical condition with no excessive backlash. Casings should also be checked.
- (p) All wing pulleys with riveted pins of non-ferrous material may be rejected. The riveted pins can be replaced by a positively locked stainless steel bolt. Pulleys should also, if possible incorporate a bush.
- (q) All pulleys with any tension shall not cause the yoke to clamp down on the pulley wheel.
- (r) All pulleys which use an attachment hook of non-ferrous material shall be rejected.
- (s) All attachment hooks shall be closed.
- (t) Sheathed steering cables shall not be permitted.

- (u) Wires to the steering wheel running across the front of the dashboard shall be effectively be shielded. It is also recommended that the wires running fore and aft inside the cockpit be similarly shielded.
- (v) Jet boats must be fitted with a rudder extending below the bottom of the boat and operating in conjunction with normal jet steering.
- (w) Teleflex-type steering shall incorporate dual system (for outboard speed events only).
- (x) Steering equipment is not to be ground or drilled to ease in assembly. (shackles, pulleys etc.)
- (y) Steering cables must be not be used in more than 15 **Events**. It is up to the boat owner / driver to monitor the condition of the cable.
- (z) A 4mm or 5mm steering wire cable is to be used. The cable material may be of galvanised steel or stainless steel and the construction shall be 7x19 (7 strands of 19 wires.
- (aa) Steering wires are to be fitted with a Scrutineer's tag at all times. Replacement tags can only be fitted after a Scrutineer has rechecked the steering system.
- (bb) All wing mountings where secured to the engine shall be exposed for the purpose of Scrutineering.
- (cc) The engine cowlings should be cut/trimmed or adjusted to achieve a minimum of 10mm above and below the wing to allow the scrutineer to complete a visual check.
- (dd) A safety wire shall be attached connecting the wing to pulley in case of failure at this point. This may be achieved by one of two means:
  - A loop of cable secured by 2 cable clamps or a crimped connection. Minimum 3mm s/steel or galvanised cable (as shown below)

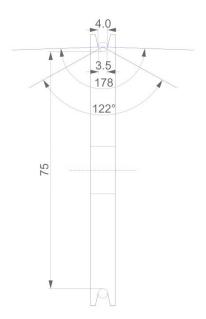


Or by the method illustrated below.



## **Stainless Steering Cable**

- (a) Cable to be 304 grade Stainless Steel 7 x 19
- (b) 4mm only
- (c) Proof of cable type and purchase date may be required (this is for both galv and stainless steel cable)
- (d) Minimum pulley / helm diameter for SS to be 75mm please note: This is absolute borderline in regards to safe operating parameters of SS cable it is preferred that it is 100mm
- (e) Groove size to be a minimum of 3.5 mm & a maximum of 4mm



4mm cable 7 x19 SS 304

## **Control Cables**

All control cables shall be taped or screwed down securely.

#### **Fuel Tanks**

Shall be secure in all directions. Shall not leak.

Shall have sensible filling and venting arrangements where applicable, that are not close to any parts such as exhaust manifolds.

It is recommended that there should be an easily accessible means of shutting the fuel supply off from the tanks.

#### **Fuel Lines.**

Shall be leak resistant and run in a manner to avoid damage. Lines shall be in good condition with proper connectors. Flexible hoses and pipe runs should be clipped up at suitable intervals with fair runs to the engine (at all points of travel in the case of outboards). Lines should be fire resistant non-collapsing.

#### **Throttles**

All throttles must be operated by foot, whether inboard or outboard.

All carburetors and/or throttles must be spring loaded to close at the engine, and must function accordingly.

#### **Extinguisher System**

Minimum 1kg AS/NZS 1841:5 approved dry powder fire extinguisher must be securely mounted in the boat at all times, shall be of satisfactory condition and easily accessible. Only fully charged extinguishers with indicator gauge needle reading in the green will be acceptable.

#### Components

All component parts of a boat such as fuel tanks, batteries and hatches, etc, must be securely fastened in a permanent manner to prevent movement.

### **Battery Storage**

Batteries, where carried, shall be easily accessible and prevented from any movement in any direction by means of adequate hold downs.

Ensure there is adequate support below the battery. Batteries shall not be placed in sealed compartments.

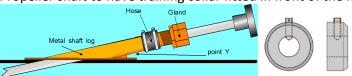
## **Propellers**

Propellers shall be sound, particular at the blade roots.

All propellers to be lock nutted and/or secured by a split pin or locking tab.

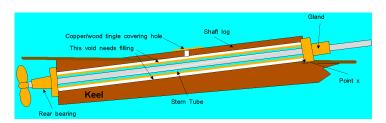
#### **Propeller Shaft**

Propeller shaft to have training collar fitted in front of the log.



Top line shaft (jack shaft) between engine and gearbox or stern leg shall have a circular braces or suitable supports to contain the shaft, or any other moving part of the mechanism within the vicinity of the Driver or Observer or likely danger, is to be fully enclosed with a safety guard (guard should be a minimum 3mm steel or 6mm aluminum).

The base of the propeller shall have at all times some clearance between the rear of the skeg (inboards).



#### **Buoyancy**

All boats shall have sufficient buoyancy to keep afloat in all conditions. Buoyancy aids or material shall be adequately fixed. Unless a boat has built in positive buoyancy, the boat's owner and/or driver must demonstrate visually that adequate buoyancy aids have been installed. Truck tubes or similar may be secured in the bow of the boat.

#### Seating

Adequate seating to be provided for driver and observer.

Seats will be firmly mounted and secure side by side with the driver.

Observer shall face the rear of the boat and be positioned to allow full view of the skier/s at all times whilst remaining seated.

Observer's seat will be next to or in front of driver's seat. No part of the observer's seat will extend past the rear of the driver's seat.

Observers must remain seated in the cockpit of the boat and must keep the skier under observation at all times during their participation in the event. The only time the observer may leave their seat is to put weight on the foredeck only when starting the skier/s or assisting the skier/s in the water or boat. The observer's feet must remain on the floor at all times the boat is under power.

#### **Cut Out Switch**

Cut out switch is compulsory

Path and length of the cord shall ensure disconnection of switch whatever the direction of ejection. Cord and attachments shall be adequately attached to the cut out switch.

Shall actually cut the engine completely when operated.

No device shall be fitted to render the switch plug inoperative.

Control unit shall be within easy reach of the driver in their normal position. Unit shall be attached securely to the boat structure.

#### Official Race Numbers.

Official numbers will be those allocated by the person responsible for NZWSRA memberships.

A register of allocated numbers will be maintained and reviewed. Any allocated number not used for two race seasons or if membership of the association lapses for 2 years, the allocated number will be removed from the register and be available for reallocation, in the third season.

Numbers to be coloured black on a background of white by means of a waterproof enamel paint or plastic transfer in such a manner that they are clearly visible on both sides of the boat. Minimum dimensions of individual numbers will be height 300mm, width 225mm, thickness 50mm, and spacing 75mm, and the white background forms a border around the numbers, of 20mm minimum.

All numbers are to be placed in a near vertical position as possible and are to be visible from both sides of the boat at a distance of 50 metres.

Where a straight number board is fitted it is a requirement that the front leading edge of the number board be rounded and have a minimum diameter of 25mm.

#### Safety Flag.

Safety flag (for downed competitor) must be flame orange 50cm x 50cm fixed to a sturdy pole no less than 1.0 meter in length, and must be part of the equipment.

A suitable flagpole holder will be provided for the use when the skier is in the water and the observer requires both hands for other operations. The safety flag must be in a clearly visible location in all directions when mounted in the pole holder.

#### **Medical Flag**

All boats will carry a blue and white medical flag, 50cm x 50cm fixed to a sturdy pole no less than 1.0 meter in length. The flag will be half blue and half white (separated diagonally) on each side. This flag will be raised only when assistance is required.

## **Distress Flares (For Offshore Events)**

Boats must carry a minimum of two orange coloured daylight smoke flares for ignition, should a member of the crew or competitor be seriously injured, subject to the requirements of any **Authority**.

Flares etc normally have a stamped expiry date and if they have expired or the date is illegible or the condition poor they shall not be accepted.

#### **Paddle**

A paddle (not a water ski) shall be stored for immediate use, but not loose.

The paddle shall be of practicable form related to the size of the boat and in suitable condition.

#### **Handholds**

All boats will have adequate stationary handholds fixed securely to the hull and in a convenient location for the Observers use at any time. They shall be located to prevent entrapment of the boat crew.

#### **Footrest**

All boats are to have adequate footrests for the observer and to be suitably located for bracing the observer within the seat.

#### **Engine Mounting and Transmissions - Outboards**

Transom must be structurally in good sound condition. Mounting brackets shall be secure and in a satisfactory condition. Jacking plates shall be secure and in a satisfactory condition and secured to the transom with a minimum of 4 bolts.

Engine mountings shall be attached to the transom/jacking plate with a minimum of 4 bolts. All bolts shall be adequately tightened.

## **Engine Mounting and Transmissions – Inboards**

Transom and engine mountings must be structurally in good sound condition. Where an out drive or jet unit is fitted, the out drive ring connection to the transom and the unit to the rings shall be secure. Transmissions and all parts motivated by the engine shall be efficiently shielded so as to prevent damage to persons or structure in the event of a breakage. For shafts in excess of 30cm in length the shielding shall not allow more than 1 cm clearance at either end. Bearers shall not be saturated with oil.

#### **Engine Condition**

The engine shall be free of dangerous corrosion, oil or fuel leaks or excessive heating and shall not be a danger to adjacent structure. Oil leaks are a particular source of fire danger.

For enclosed inboard engines, flame arresters are compulsory.

#### **Noise**

Engine and exhaust noise not to exceed the Authority's standard for noise decibels and every effort be made to reduce excessive noise levels wherever possible. There shall be adequate heat shielding where required and securely fastened to avoid fire.



#### Anchor (if required)

Anchor shall be of weight and type adequate to hold the boat. Shall be properly stored to prevent damage, but shall still be accessible.

#### Compass / GPS Navigation (if required)

Shall be securely mounted as per manufacturers recommendation and should be able to be read by the driver. GPS navigation can be used in place of a compass.

#### Bilge Pump

Shall be in proper working order, be secured to the boat and be reasonably accessible for operation. Shall have the pump inlet mounted in stern bilge area and be able to pump fluid from the bilge area overboard. It must be possible to pump out all sections of the boat, even if separated by watertight bulk heads (more than one bilge pump maybe required).

#### **Outboard Engine Wells**

Water from the engine well area must not be able to drain into the bilge of the boat

## **BOAT CREW EQUIPMENT**

#### **Helmets**

All boat and crew members competing in speed events shall be required to wear day glow orange helmets.

## **Helmet Types and Condition**

All helmets are to comply with NZS 1698:2006, ASA, UIM or be approved by the **Technical Rules Committee** on production of relevant certification by manufacture. Must be in good condition and devoid of dents, splits and defects. Helmets that are constructed from plastic material should not be painted unless this is authorised by the manufacturer, but should be self coloured day glow orange. Helmets made from fibreglass maybe painted. Helmet visors shall be in good condition and devoid of cracks and easily detachable (i.e. not bolted down). Visors must not be secured in any way which prevents them lifting up (i.e. taping). Failure by a team member to correctly wear their helmet whilst under power as a team on race day in the normal manner may incur a penalty. Helmets may only be removed while in the infield area of the circuit or while waiting for the race to start. You must then be stationary or at idle (i.e. not on the plane).

#### **Life Jackets**

All boat crew members competing in **Events** must wear a waistcoat type unaltered life jacket with leg/crouch straps. Life jackets must be equipped with collars and/or must have flotation material high on the chest to hold an unconscious person's face out of the water. Life jackets and life collars, if any must be securely fastened at all times, while on the course, racing or testing. Leg straps must be securely fastened to the Life Jacket and legs.

## **Life Jacket Inspections**

Life jackets shall also meet the following inspection requirements. Lacing ties and/or straps shall be adequate and in good condition. Zips where used shall be in good working order.

Tears or rents or bad repairs whereby the buoyancy will leak out, shall not be permitted. Life jackets shall be dry and not oil or waterlogged.

Life jackets shall be fitted with integral hold down straps to the legs.

#### **Life Jacket Colour**

All life jackets to be predominantly orange, yellow or another clearly distinguishable colour.

#### **Minimum Standard Acceptable**

The racing life jackets NZS Type 406 minimum standard acceptable is to comply with NZS 5823:2005 and/or EN ISO 12402-2-2006 PFD Type 1 approved and/or have UIM approval.

#### **Safety Belts**

Safety belts are not permitted.

#### **Footwear**

All boat crew members competing in **Events** are to wear footwear of a closed toe type.

#### **Firesuits**

Minimum of single layer fire resistant overalls must be worn as a driver or observer when in an inboard and competing at an **Event**.

#### **SKIER EQUIPMENT**

#### **Skiers Helmet**

Fluorescent orange helmets to be worn by all skiers. The helmet must cover the ears, securely fit on the head, have secure straps, and float.

The possibility of "bucketing or enforcing" water between the helmet and the head can be reduced by ensuring the helmet is fitting about the head or else it should have substantial drain holes.

## **Buoyancy Vests**

If a wetsuit is worn over a vest, crutch straps are not necessary. The top half of the wetsuit must be predominantly fluorescent orange, pink, green, or yellow. Any exception to these colours must be approved by the **Technical Rules Committee**.

Buoyancy vests shall also meet the following inspection requirements: Lacing ties and/or straps shall be in good working order. Zips, where used, shall be in good working order. Tears, rents or bad repairs whereby buoyancy will leak out, shall not be permitted. Jackets shall be dry and not oil or waterlogged. Jackets shall be fitted with hold down straps to the legs.

## **Safety Water Ski Trunks**

Safety water ski trunks with manufactured, unaltered leg straps may be acceptable.

#### Race Ski

A coloured fluorescent orange paint or adhesive tape at least 15cm in length and full width of the ski must be placed on the upper and lower front tip of all skis.

Skis must be in a serviceable condition.

Skis shall not be more than 3 metres in length.

Any type of bindings and fins of recognised manufacturer are allowed except in **Events** specifying skis without such fittings.

A competitor wishing to use any equipment that does not comply with these Rules, may submit a sample to the **Technical Rules Committee** for determination at least four weeks prior to the **Event**.

#### Tow Line/s

Tow lines shall be provided by the Skier, preferably of polythene or polypropylene material. Point of attachment shall not extend beyond perimeter of gunwale. No harness is to be used. A harness is defined as any device which permits the handles to be locked together or allows the skier to be towed without retaining hold of at least one of the handles.

The minimum length of a tow line is 21 metres, including handles and skiers bridle.

The maximum length of a tow line is unlimited, providing safety limitations are maintained.

#### **Other Equipment**

Water bottles and the like (Camel Backs) may be worn for hydration purposes and shall be made of a soft material e.g. made of wetsuit material. These must be worn on the back, but must not be worn under the safety straps of the race suit. If the container is housed in an integral pouch as part of the wet suit, the safety straps of the wet suit must pass under the pouch and not around the pouch. All stoppers must be of soft plastic material. The drinking tube is to be long enough to reach the mouth but not long enough to reach the eyes. These devices must be checked by the **Chief Scrutineer** events with notation of approval made in the RC4 Scrutineers Form of each boat the skier skis with.

No clinch gloves are permitted.

# Appendix 2 – Technical Definitions and Requirements

#### F2 Boat

"F2 Boat" means a boat which complies with IWWF Rules and which has a motor sealed in the manner prescribed by the Technical Rules Committee. Interpretation of the IWWF Rules will be made by the Technical Rules Committee. The rules governing this class are set by the International Water Ski Federation. Competitors must refer to the current IWWF Rule Book. However:

- the minimum boat length (measured per IWWF Rules) shall be 5.48m and the
   Technical Rules Committee will be responsible for any interpretation / clarification
   or ruling on the IWWF Rule book for use in the NZWSRA;
- engine sealing and inspection requirements for NZWSRA F2 boats are managed using the 'TR5 SMOC Form' and NZWSRA SMOC procedures, including the fees and declarations required of competitors;
- where there is a choice of gearbox, choice is to be nominated and retained for an
   Event. Permission to change gearbox type will only be considered due to
   mechanical failure;
- NZWSRA F2 Boat motors are not required to be ratified by the IWWF.

#### **MOC Boat**

"MOC Boat" means a SMOC Boat with a single outboard motor that is not a SMOC Motor (but a Standard Bottom End) and not super charged or turbo charged;

## Open F1 Boat

"Open F1 Boat" means a boat with engine(s) restricted to a maximum 575 cubic inches or 9.42 litres, does not use nitrous oxide, and has a maximum length of 6.5 metres.

## Open F2 Boat

"Open F2 Boat" means, for an outboard, a boat with engines restricted to a maximum total capacity of 8.5 litres. Twin rigs must have **Standard Bottom Ends**. Maximum of two engines. No super charging or turbo charging permitted. No nitrous oxide. Single rig outboards may run "quick – foot" gearboxes and short (F1) midsections. For an inboard, engines are restricted to a maximum total capacity of 575 cubic inches or 9.42 litres naturally aspirated. A penalty of 1.4 of capacity for super charging or turbo charging (i.e. max capacity 410 cu). No nitrous oxide. The maximum length 6.5 metres.

#### **SMOC Boat**

"SMOC Boat" means a boat which:

(a) is a standard factory production model run about (but does not have a cabin);

- (b) has a cockpit size which allows a rectangular box measuring 1680mm long and 1170mm wide to be placed within the cockpit without any obstruction of any part of the deck (excluding helm, seats, and handles);
- (c) has an observer's seat next to or in front of the driver's seat;
- (d) has a single engine; and
- (e) has a standard windscreen.

#### **SMOC F4 Boat**

"SMOC F4 Boat" means a SMOC Boat with SMOC Motor sold and badged up to 250HP;

#### **SMOC F5 Boat**

"SMOC F5 Boat" means a SMOC Boat with a SMOC Motor sold and badged as 200HP;

#### **SMOC F6 Boat**

"SMOC F6 Boat" means a SMOC Boat with a SMOC Motor sold and badged as 175HP;

#### **SMOC Motor**

"SMOC Motor" means an outboard engine which meets the following criteria:

- (a) is a stock production "out of the box" (except for spark plugs, propellers, carburetor jets, timing adjusting, engine mounts, nose cones, torque tamers, permatrim plates and fibreglass/plastic reeds) with no additional porting, polishing, blue printing, deburring and does not have any metal removed.
- (b) resleeving or reboring will be permitted, but will not be permitted as an aid to performance.
- (c) replacement parts etc are to be those catalogued as such by respective outboard manufacturers for the applicable engine. In the case of an electronic control unit (ECU) being fitted to the motor, the electronic identification must remain i.e. components can only be replaced with those parts applicable to that particular model.
- (d) no modification, reprogramming or upgrading is allowed to the ECU unless carried out as part of the manufacturers recommended update of the ECU.
- (e) has the engine management computer, heads, and intake sealed in a manner prescribed by the **Technical Rules Committee** been and is sealed.
- (f) the engine height is not adjustable during a Race and the centerline of the prop shaft (when parallel with the bottom of the boat) shall not be less than 65mm below the bottom of the boat, provided that dispensation may be given if the Technical Rules Committee accept it is impossible to comply with this rule, and the spirit of the class is maintained. Sufficient transom mounting bolts are to be drilled and fitted with a seal to ensure the engine height cannot be changed without breaking the seal.
- (g) no louvered cowls allowed, except where fitted in manufacture.
- (h) removal of fuel connection bayonet is permissible.

- (i) electric fuel pumps are acceptable provided fuel passes through original, unaltered fuel pump on engine and is operational.
- (j) rev limiters where fitted are to remain operational as per manufacturers specification.
- (k) all engines must have operational forward, neutral and reverse gears.
- (I) the gearbox type and ratio must be original. Where there is a choice of type and / or ratio the choice must be retained for an Event Permission to change will only be considered due to mechanical failure.
- (m) standard automotive gas only to be used i.e. no aviation gas or octane boosters to be used or any other additives other than approved 2 stroke oil.

#### **Social Ski**

"Social Ski" means a ski which:

- (a) will (when the fin is removed) fit into a box measuring 175cm long, 18cm high, 20cm wide from the front to 100cm along the box, then tapering uniformly to 7.5cm at the rear of the box
- (b) is not thicker than 2.2cm at any point.
- (c) has a concave bottom at least 0.5cm deep, 7cm wide and 70cm long.
- (d) does not support the heel or ankle.
- (e) does not allow toes to be used for grip.
- (f) the sole piece of the rear binding does not exceed 3mm thickness.

## **Standard Bottom End**

"Standard Bottom End" means a gearbox which has operating forward neutral, and reverse, standard ratios, and is connected to mid section at least 15 inches long

## Appendix 3 – Scoring Examples

#### Scenario One

Skier A completes a race in 22 minutes and 38 seconds (1,358 seconds). Skier B completes the race in 23 minutes 12 seconds (1,392 seconds). Both complete 6 laps.

Skier A's average lap time is 226.33 seconds (1358 / 6). Skier B's average lap time is 232 seconds (1392 / 6).

Therefore, skier A is the Official Winner and receives 1,000 points.

Skier B's points are calculated by the following formula:

1000 x A / B

where:

A = the Official Winner's average lap time

B = competitor's average lap time

Therefore, skier B's points are 1,000 x 226.33 / 232 = 975.57

## **Scenario Two**

Same as Scenario One, except skier B completed 5 laps.

Skier A's average lap time is still 226.33 seconds.

Skier B's average lap time is 278.4 seconds (1392 / 5).

Therefore, skier A is the Official Winner and receives 1,000 points.

Skier B's points are calculated by the following formula:

1000 x A / B

where:

A = the Official Winner's average lap time

B = competitor's average lap time

Therefore, skier B's points are 1,000 x 226.33 / 278.4 = 812.96

#### **Scenario Three**

Same as Scenario One, except skier B received a 10% time penalty. Skier B's time is now 1,392 seconds plus 10% of the Provisional Winner's time  $(1,358 \times 10\% = 135.8) = 1,527.8$ .

Skier A's average lap time is still 226.33 seconds (1,358 / 6). Skier B's average lap time is now 254.63 seconds (1,527.8 / 6). Therefore, skier A is still the Official Winner and receives 1,000 points.

Skier B's points are calculated by the following formula:

1000 x A / B

where:

A = the Official Winner's average lap time.

B = competitor's average lap time

Therefore, skier B's points are 1,000 x 226.33 / 254.63 = 888.85

#### **Scenario Four**

Same as Scenario Two, except skier A received a 10% time penalty. Skier A's time is now their actual time (1,358 seconds) plus a 10% penalty (135.8 seconds) making a total time of 1,493.8 seconds. Skier B's time remains at 1,392 seconds.

Skier A's average lap time is now 248.96 (1493.8 / 6).

Skier B's average lap time is still 278.4 seconds (1392 / 5).

Therefore, skier A is still the Official Winner and receives 1,000 points.

Skier B's points are calculated by the following formula:

1000 x A / B

where:

A = the Official Winner's average lap time

B = competitor's average lap time

Therefore, skier B's points are 1,000 x 248.96 / 278.4 = 894.25

#### **Scenario Five**

Same as Scenario One, except skier A received a 10% time penalty. Skier A's time is now their actual time (1,358 seconds) plus a 10% penalty (135.8 seconds) making a total time of 1,493.8 seconds. Skier B's time remains at 1,392 seconds.

Skier A's average lap time is now 248.96 (1493.8 / 6). Skier B's average lap time is still 232 seconds (1392 / 6).

Therefore, skier B is the Official Winner and receives 1,000 points.

Skier A's points are calculated by the following formula:

1000 x A / B

where:

A = the Official Winner's average lap time

B = competitor's average lap time

Therefore, skier A's points are 1,000 x 232 / 248.96 = 931.88

#### Scenario Six

Same as Scenario One, but with an additional skier (skier C) who crossed the finish line 25 minutes and 2 seconds after the start, but claims for Time Compensation because a boat on the inside of Skier C had a steering issue in a turn and came across into the wake of Skier C's boat causing Skier C to fall off. Skier C's boat had a video camera which recorded the time taken for Skier C to restart and was therefore able to provide conclusive evidence of the time lost through the fault of the other team. In this case the time lost was 2 minutes and 20 seconds. Skier C still completed 6 laps.

Skier C's time is the actual time (25:02) less Time Compensation (2:20) making a race time of 22 minutes and 42 seconds, or 1362 seconds, or 227 seconds per lap.

Therefore, skier C's points are 1000 x 226.33 / 227 = 997.05

If Skier C lost 2 minutes and 40 seconds, Skier C's race time would be 22 minutes and 22 seconds. The average lap time would be 223.67 seconds. Skier C would therefore have the fastest lap time and be the official winner. Skier A (the Provisional Winner) would score according to the following formula:

1000 x 223.67 / 226.33 = 988.25.

# **Appendix 4 – Time Penalties**

The table below sets out the time penalties that are to be applied for a breach of these Rules. If a specific rule is not listed in the table below, the time penalty is 5%

Rule	Time Penalty
Rule 66 - not wearing a helmet or buoyancy vest while on the plane or within 10m of the circuit.	8%
Rule 68 - starting in the wrong lane or grid.	7%
Rule 69 - being less than 10m apart or more than 15 metres apart at the start.	6%
Rule 70 - skier entering the water before the green flag.	7%
Rule 71 - jumping the start	10%
Rule 75 - observers must remain in the cockpit and keep skiers under observation at all times.	6%
Rule 77 - missing a start and not raising the orange flag.	6%
Rule 77 - wide / fast turn after a missed start	10%
Rule 78 - not maintaining lane positions on the first straight until the first corner is complete.	6%
Rule 79 - skier not remaining in the wake.	4%
Rule 80 - following closer than 100m.	8%
Rule 81 - crossing lanes closer than 20m behind a skier, within 100m in front of another boat, or being closer than 5m to the side of another boat / skier.	10%
Rule 82 - not being at least 5 lateral metres apart from any other boat or skier.	10%
Rule 84 - entering the infield area.	4%
Rule 85 - "squeezing" or pushing in a corner.	6%
Rule 87 - not raising the orange flag after a fall.	7%
Rule 87 - turning to retrieve a skier while still on the plane.	8%
Rule 87 - not yielding right-of-way when returning to pick up a skier.	8%
Rule 87 - orange flag lowered before skier is in the Proper Skiing Position.	7%
Rule 87 - physical contact with skier while prop rotating.	10%
Rule 88 - not acknowledging an orange flag.	3%
Rule 89 - not acknowledging a yellow flag.	3%
Rule 90 - not stopping for a red flag.	10%
Rule 97 - skiers not holding handles until their boat returns to retrieve them.	4%
Rule 98 - orange flag not remaining up while the skier is retrieved after the race.	5%
Rule 99 - removing helmets after your race but not being in the centre of the infield or not stationary / at idle.	4%
Rule 100 - returning to the ramp before the red flag.	5%