

Regulations

of the

2001 World Solar Cycle Challenge

Chapter 1 - Administration and Conduct

(v.060201)

1. Event Title

- 1.1 The name: The World Solar Cycle Challenge® is the "Correct Title" of the Event.
- 1.2 If a "Naming Rights" sponsor is signed, the "Correct Title" of the event may become the "(sponsorship name) World Solar Cycle Challenge".
- 1.3 Entrants shall use the "Correct Title" in all references to The Event.

2. Organisation and Status

- 2.1 The event is recognised by the International Solarcar Federation (ISF).
- 2.2 The event will be conducted by these regulations and any further regulations that may be issued.

3. Entrants & Eligibility

- 3.1 The Entrant is the legal entity completing the Participation Agreement.
- 3.2 Eligible Vehicles are power assisted pedal cycles (as defined by the Motor Vehicles Act 1966) and are compliant with the descriptions contained in the Technical Regulations section of this document.
- 3.3 A team may comprise up to 15 people.
- 3.4 All team members must be registered and sign in at scrutineering.

4. Organiser and Promoter

- 4.1 **Australian Major Events**
World Solar Challenge
GPO Box 1972
Adelaide 5001
AUSTRALIA
Telephone: +61-8-8463 4690
Facsimile: +61-8-8305 0175
E-Mail: wsc@saugov.sa.gov.au

4.2

Organising Committee:

Chris Selwood, Belinda Dewhirst, Damon Cramp, Brian Scholz, Ray Hemer and representatives of Bicycle SA

4.4 Senior Officials:

- 4.4.1 Event Director - Chris Selwood
- 4.4.2 Event Manager - to be advised
- 4.4.3 Clerk of the Course - to be advised
- 4.4.4 Assistant Clerk of the Course - to be advised
- 4.4.5 Secretary of the Meeting - To be advised
- 4.4.6 Chief Medical Officer - Dr Bill Boyd
- 4.4.7 Chief Scrutineer - To be advised
- 4.4.8 Chief Timekeeper - To be advised

4.5 Date and Venue of the Event

- 4.5.1 The event will commence with scrutineering on 17 November 2001 and conclude following the prize-giving on 25 November 2001.
- 4.5.2 The event is to commence in Alice Springs, NT and conclude in Adelaide, SA.
- 4.5.3 Pre-event scrutineering commences - 17 November 2001.
- 4.5.4 Stability and brake test - 17 November 2001.
- 4.5.5 Pre event and daily briefings as notified in further regulations.
- 4.5.6 Start of on-road component - 19 November 2001.
- 4.5.7 Presentation of Awards - 25 November 2001.

4.6 Entries

- 4.6.1 Applications for participation may be made by Entrants with eligible vehicles which are described in regulation 3.2
- 4.6.2 Applications are open with the issue of these regulations.
- 4.6.3 Applications must be made on the approved form and signed by the Entrant.
- 4.6.4 Every Entrant must complete a participation agreement.
- 4.6.5 The field will be limited to twenty-five (25) teams
- 4.6.6 Entries received after the twenty-five (25) team maximum may be put on a reserve list.
- 4.6.7 25% of entry fee will be invoiced on acceptance of entry.
- 4.6.8 Insurance fees to be paid by 31 July 2001 (Invoiced on 1 July 2001).
- 4.6.9 Remainder of entry fee to be paid by 31 July 2001 (Invoiced on 1 July 2001).
- 4.6.10 Entries close 31 July 2001.
- 4.6.11 Vehicle and battery data sheets must be lodged by 31 July 2001.
- 4.6.12 Any team not supplying the required information by the due date will attract a penalty of \$220.
- 4.6.13 The Organisers reserve the right to reject any entry; such refusal is not subject to protest.

4.7 Change of Entry Details

- 4.7.1 An Entrant may change the specification of the vehicle or drivers up to the scheduled start time of scrutineering. No guarantee is given that changes will appear in printed lists.
- 4.7.2 Once a vehicle has passed scrutineering, no changes to specification will be permitted.
- 4.7.3 The Organisers reserve the right to determine the class of any vehicle.

4.8 Entry Fee

- 4.8.1 The entry fee for all classes is AU\$ 550 (including GST)
Australian entries registered for GST will receive a tax invoice
Fees are payable by **31 July 2001**.
Payments are to be made to Australian Major Events, WORLD SOLAR CHALLENGE.
- 4.8.2 25% will be invoiced on acceptance of nomination (this is non-refundable).
- 4.8.3 Remaining 75% will be invoiced on 1 July 2001 (payable by 31 July 2001).

4.8.4 Insurance fees as detailed in Article 5 will be invoiced 1 July 2001.

4.9 Financial

4.9.1 The South Australian Tourism Commission will issue invoices on behalf of the World Solar Challenge.

4.9.2 All invoices are payable by the end of the month of issue.

4.10 Definition of Categories

4.10.1 The definitions of type of entries are as defined the technical regulations

4.11 Amendments to the Regulations

4.11.1 These regulations may be amended by the issue of Further Regulations.

4.12 Interpretation of Regulations

4.12.1 The Stewards of The Event are the only authority empowered to make a decision on the interpretation of these regulations.

4.13 Route

4.13.1 The Event shall be conducted on public roads between Alice Springs, Northern Territory and Adelaide, South Australia. A minimum distance of 1400 km

4.13.2 The organisers reserve the right to cancel the event or any stage thereof for any reason outside of its control.

4.14 Authority to be on Public Roads

4.14.1 Only vehicles successful in scrutineering will be become eligible to compete.

4.14.2 All vehicles associated with the event shall comply with the relevant road traffic laws.

4.14.3 Any vehicle associated with the event shall be driven in a careful and lawful manner at all times.

4.15 Riders

4.15.1 Teams will contain a minimum of two and a maximum of six riders

4.15.2 All riders will be required to sign on in Alice Springs and unless injured or sick, compete in every stage.

4.16 Drivers and Entrants' Qualifications

4.16.2 All riders shall have a minimum experience of 3 hours riding the solar cycle on public highways.

4.16.3 Only the nominated riders may ride during competition hours.

4.16.4 Any participant under the age of 18 shall be duly vouched for (see notes).

4.17 Administrative Checking

4.17.1 Place: Red Centre Resort, Alice Springs

4.17.2 Date and Time: Saturday 17 November 2001 from 0800 hours.

4.19 Scrutineering

Scrutineering will take place at the Red Centre Resort (Alice Springs) and such other place and time as the Clerk of the Course may direct.

4.19.2 Saturday 17 November 2001: 0800 to 1800 hours.

4.19.3 Specific scrutineering times for each team will be made by draw and results posted on the Official Noticeboard at the Red Centre Resort at the time stated in 4.19.2

4.19.4 All competing vehicles are required to be presented at the set time from November 17 in Alice Springs in a READY TO START condition. Scrutineers will examine the vehicles to ensure they conform with these regulations.

4.19.5 If a vehicle arrives late for scrutineering, the Team will incur a fine of \$50.00 and may be demoted to reserve status.

4.19.6 Any vehicle failing scrutineering may be re-presented at the discretion of the Chief Scrutineer.

4.19.7 No vehicle will be allowed to start the event until it has passed scrutineering, and the relevant briefing has been attended.

4.19.8 Speed, stability and brake testing forms part of the scrutineering process

4.19.9 The Primary Support Vehicle (detailed in reg. 6.4.3) shall be presented for inspection at Alice Springs on Saturday 17 November 2001.

4.19.10 Unfair Practice

Exclusion will occur if, during the Event or at scrutineering, the Organisers discover that an entrant or crew has deliberately violated these Regulations to gain unfair advantage over other entries, or departed from the spirit of the competition.

4.20 Grid Positions

4.20.1 Grid position will be determined by performance at the speed trials.

4.21 Pre-Event Briefings

4.21.1 The pre-event briefing will be prior to the event start on 17 November 2001 at the Red Centre Resort, or such other place as may be announced in further regulations. The Team Manager, Safety officer and all riders must attend all briefings.

4.21.2 Daily stage briefings will be held 30 minutes prior to each stage start.

4.21.3 A register must be signed confirming attendance at the briefings. Non-compliance will incur a time penalty.

4.22 Compulsory Signs

4.22.1 The organisers shall supply signs that carry event and sponsor logos.

4.22.2 These signs must be displayed on the solar cycle at all times and in such a way that they are clearly visible to a person standing near the cycle.

4.22.3 Unbroken spaces of at least 200mm x 200mm on each side of the solar cycle to be provided for this purpose.

4.22.4 Unbroken spaces of at least 200mm (height) x 500mm (width) on both front doors of the support vehicle to be provided for this purpose.

4.23 Competition Numbers

4.23.1 Cycles will be allocated numbers upon receipt of entry.

4.23.2 Special requests may be submitted. Allocation is at the sole discretion of the Organisers.

4.23.3 Competition numbers must be in an area of at least 100mm x 100mm and be clearly displayed on each side of the solar cycle.

4.23.4 Competition numbers shall be in contrasting colours to their background and acceptable in every way to the Chief Scrutineer.

4.23.5 Competing vehicles must carry the national flag of the country of entry, fixed adjacent to the windscreen. Minimum size 70mm x 40mm

4.24 Advertising Signs

4.24.1 Advertising signs are permitted on any vehicle. Signs and lettering must not be of an offensive nature.

4.25 Overnight Accommodation

Any cost incurred for overnight accommodation at the start, finish and any stage, is the responsibility of the Entrant.

5. Insurance Cover

5.1 5.1.1 All Entrants will be covered by the Organisers Public Liability policy.

In addition to this, Entrants are required to carry the following minimum cover:

5.1.2 All team members (as defined in clause 3.4) will be covered by personal accident and ambulance cover. The arrangements for this will be advised in Further Regulations.

NB The additional insurance covers as described in 5.1.2 are compulsory for all entrants. The Organisers will arrange this cover. Payment of any insurance premium will be the responsibility of the entrant, and will be invoiced on or after 1 July 2001.

5.3 Comprehensive Vehicle Insurance

5.3.1 Comprehensive vehicle insurance is the responsibility of the entrant.

6. Conduct of the Event

6.1 The Start Line: Red Centre Resort, Alice Springs: 0900, Monday 19 November 2001

6.1.2 The Organisers reserve the right to change the time and/or place of the start, subject to the approval of the Stewards.

6.2 The Course

6.2.1 The Event shall be conducted on the Stuart Highway between Alice Springs and Adelaide. The Event will be a staged with a set finish location every day. All competitors will travel from Alice Springs to Adelaide over seven days covering a total distance of 1434 km. Entrants will travel between the hours of 08:00 and 18:00 (6:00pm). If they have not completed the set distance on any given day, the team will be instructed by the Sweep Official to transport their cycle to the finish point

The event itinerary is as follows:

Saturday 17/11	Registration and Scrutineering at Alice Springs	
Monday 19/11	DAY 1 Alice Springs to Eraldunda	199 km
Tuesday 20/11	DAY 2 Eraldunda to Marla	252 km
Wednesday 21/11	DAY 3 Marla to Coober Pedy	233 km
Thursday 22/11	DAY 4 Coober Pedy to Glendambo	253 km
Friday 23/11	DAY 5 Glendambo to Port Augusta	289 km
Saturday 24/11	DAY 6 Port Augusta to Quorn	116 km
Sunday 25/11	DAY 7 Balaklava to Adelaide	92 km
	TOTAL DISTANCE	1434 km

6.2.3 STARTING ORDER

The Speed, Stability and Brake Test will determine the starting order on Day 1. The fastest cycle will take the first position on the starting grid. The remaining teams will be ranked according to their Speed, Stability and Brake Test results. The starting order on Days 2-7 will be based on the previous day's results.

6.3 Control Points

6.3.1 Control Points will be established at intervals along the route.

6.3.2 Control Points (static and mobile) may or may not be disclosed.

6.3.3 Any vehicle associated with the event may be required to stop at control points. Time will be credited. No repair work may be carried out.

6.4 Support Vehicles

6.4.1 Each team must have a minimum of one support vehicle.

6.4.2 A maximum of two vehicles may accompany each entrant at any one time (1 in front and 1 to rear).

6.4.3 At any given time, the rear support vehicle shall be designated the primary support vehicle, and shall have communications in accordance with regulation 6.14

6.4.4 A vehicle complying with regulation 6.4.3 must be placed behind the solar cycle at any time it is on the public road.

6.4.5 The support vehicles shall carry a flashing amber beacon (compliant with Australian Standards) on a prominent high point of the vehicle, in a position that it is not obscured from the view of other road users.

6.4.6 Whilst travelling on the open road, all vehicles associated with the Entrant, with the exception of those identified in 6.4.2 shall keep a minimum of 500m from the competing solar cycle unless engaged in overtaking manoeuvres.

6.4.7 A warning sign not less than 900mm x 300mm with lettering in contrasting colour to the background, and proportional to the overall size, must be displayed on the rear of the rear escort vehicle, stating "CAUTION, SOLAR VEHICLE AHEAD"

6.4.8 All team vehicles must carry a sign, visible from the rear, stating the name of the Entrant.

6.4.9 Vehicles equipped with CB radio (qv 6.14.2) shall carry a sign, visible from the rear, advising the selected CB channel number.

6.4.10 A primary support vehicle (qv 6.4.3) shall not be a bus, truck, or large campervan, or tow a box trailer such that the ability of road users approaching from the rear would have their vision obscured.

6.4.11 When stopped, all wheels of all vehicles must be off the highway. Wherever possible a minimum 1m from the edge of the tarmac surface should be observed.

6.4.12 The Entrant shall provide the organiser with a list of all vehicles associated with the team.

6.4.13 The Entrant shall be responsible for the actions of all crew and vehicles associated with the team.

6.4.14 Support and team vehicles may be subject to scrutineering at any time during the event to ensure compliance with these regulations.

6.5 Timing

6.5.1 Timing is under the control of the Official Timekeeper

6.5.2 The official start time each day is 0800 (0900 Day 1)

6.5.3 Official finish time each day is 1800. All solar cycles must have ceased running by 1800 (6pm) each day. A Sweep crew will travel at the rear of the field to facilitate this. A time penalty will be imposed on teams that do not reach the Overnight Control before the daily finish time.

6.5.6 A vehicle starting before its official start time will be subject to penalty (as detailed in 8.3.13).

6.5.7 LATE TIME LIMIT:

Any cycle transported into the Overnight Control at the end of the day will be given the total time for the day, plus 2 minutes for each kilometre not covered, plus any penalty for arriving after the close of the day. The Entrant may continue in the next day, starting at the rear of the field. The distance covered on the previous day will determine the starting order.

6.6 Conduct on road

6.6.1 CONVOYS: Entrants and support vehicles may not drive in convoys (qv. 6.4.6) and must allow easy overtaking.

6.6.2 CATTLE GRIDS: Stock control devices may not be covered, and should be crossed with caution. Solar Cycles may not be carried by hand over grids.

6.6.3 OVERTAKING: Any cycle or support vehicle being overtaken must allow the overtaking solar cycle or World Solar Challenge solar car and support vehicle to pass without incident. The team being overtaken must allow sufficient room for passing by keeping to the left and giving way until both the overtaking solar vehicle and its rear support vehicle has merged successfully. Any team vehicle that is observed not to facilitate overtaking will incur a penalty for the team.

Any event vehicle being overtaken **MUST** give way. This includes support vehicles.

6.6.4 RETIREMENTS: Any Entrant wishing to retire must give written notice to the Clerk of the Course of the intention to retire. If the retirement decision is taken during a daily stage, the Entrant must transport the solar cycle to the end of the stage.

6.8 Vehicle Movement

6.8.1 Competing Vehicles may only move under their own power between their start time and finish time, unless abnormal circumstances prevail (see notes).

6.8.2 Competing vehicles may be pushed on and off the highway

6.8.3 Push starting the vehicle is not allowed.

6.8.4 Regenerative power systems must not be on when hand pushing or being towed under circumstances allowed in 6.8.5.

6.8.5 The vehicle may not be towed or carried forward by another vehicle, unless it is disabled.

6.8.6 Slip streaming is not allowed (driving closer than 60m). Whilst travelling on the open road a solar cycle may be no closer than 60m to the vehicle in front unless overtaking.

6.8.7 Pressure-wave pushing is not allowed (driving closer than 10m). The rear support vehicle is not allowed within 10m of the solar cycle whilst travelling on the open road.

6.8.8 Driving tests may be carried out by any qualified crew member (qv 4.6.1) from sunrise until 0800 and from 1800 until sunset.

6.11 Intoxicating Substances

6.11.1 The consumption or taking of intoxicating items is strictly forbidden. Australian civil law applies to drugs and to driving under the influence of alcohol. Drivers, team members and officials are to maintain a 0% blood/alcohol level whilst engaged in any duties associated with the event.

6.12 Safety

6.12.1 The Entrant is responsible for the road-worthiness of its solar vehicle, and will be required to sign a declaration of the vehicle's integrity and suitability for the event.

6.12.2 The scrutineering process will determine whether the solar cycle complies with the Regulations.

6.12.3 No warranty or representation, whether expressed or implied, is made in relation to the mechanical and/or systems roadworthiness of the entrant vehicle in providing this compliance with the event Regulations as specified above.

6.12.4 All solar cycles and support vehicles are operated and driven at the Entrant's own risk.

6.12.5 All solar cycles and support vehicles must be maintained in a safe, road-worthy condition and be operated safely and within the law at all times.

6.12.6 A team may be disqualified from the Event at any time if the team, in the opinion of the Stewards, is operating its solar cycles, or support vehicles, in an unsafe manner.

6.12.7 The cycle must be stable at all race speeds. Class C cycles should be stable at rest. Wind or buffeting by passing traffic must not change the direction of the cycle's travel at any time. All entrants must undergo a general stability test. The purpose of this test is to determine the general stability of the vehicle and is not a thorough analysis of the vehicle's stability. Additional riders may have to undergo the stability test if requested by an official. The team will be notified at the time of scrutineering.

- 6.12.8** All riders must start each ride with at least 500ml of drinking water for every 30 minutes spent on the solar cycle (ie 1 litre per hour). This should be consumed during the ride to avoid dehydration.
 - 6.12.9** All riders must wear shatterproof glasses, goggles or a helmet visor if the solar cycle does not have a windscreen that provides suitable protection
 - 6.12.10** No sandals or thongs will be allowed. Class B/C vehicles must have substantial protection below the feet to prevent the feet from falling onto the roadway in the event of dislodging from the pedals.
 - 6.12.11** All riders must wear an approved bicycle helmet while riding the solar cycle
- 6.13** Safety Officer
- 6.13.1** Each team must provide a Safety Officer.
 - 6.13.2** Each team must provide suitable and appropriate safety equipment, including (but not limited to): first aid kit; safety glasses and gloves for handling batteries; hazard warning cones; red warning flag; fire extinguishers; safety vests which shall be used on all appropriate occasions
- 6.14** Communications (see notes)
- 6.14.1** Every solar cycle shall have means of communication with the primary support vehicle. Entrants in Non-aerodynamic classes may use a loudspeaker
 - 6.14.2** The primary support vehicle (and other support vehicles) of each team must have 40 channel UHF CB radio facilities compliant with Australian Standards.
 - 6.14.3** The chosen channel number shall be displayed on the rear of the vehicle as detailed in 6.4.9.

7. Observers

7.1 Appointment of Observers

- 7.1.1** An Observer may be appointed by the organisers to travel with each competing team.
- 7.1.2** Observers will be considered as Judges of fact.
- 7.1.3** Observers may be changed between Entrants throughout the Event.

8. Penalties and Protests

- 8.1** Entrants committing the following offences shall be subject to a minimum 10 minute - maximum 60 minute penalty.
- 8.2** Time penalties shall be served on the day of issue and prior to crossing the finish line.
- 8.3**
 - 8.3.1** Misrepresentation.
 - 8.3.2** Failure to comply with any provision of these regulations.
 - 8.3.3** Slip streaming, hand pushing or pressure wave pushing.
 - 8.3.4** Failure to observe a request by Police or Officials.
 - 8.3.5** Obstructing an overtaking vehicle.
 - 8.3.6** Wilful damage or interference to property.
 - 8.3.7** Failure to follow the route instructions.
 - 8.3.8** Failure to report damage to stock.
 - 8.3.9** Consumption of intoxicants.
 - 8.3.10** Failure to stop at a control.
 - 8.3.11** Running without warning signs and lights.
 - 8.3.12** Exceeding any posted speed limit.
 - 8.3.13** Starting prior to due time of departure (time prior to due time being added to penalty).

8.3.14 Failing to get off the highway when stopped.

NOTE: In the case of a serious or repeated breach of any of the offences outlined above, the organisers may, at their sole discretion, exclude any competitor from the event.

8.4 Exclusion from the Event

Entrants committing the following offences shall be liable to exclusion as determined by the Stewards:

8.4.1 Replacement of battery without permission.

8.4.3 Charging of batteries from any source other than the relevant scrutineered array during Event Time.

8.4.4 Failing the stability test.

8.4.6 Carrying or towing a competing vehicle.

8.4.7 Wilful disregard of the regulations and the spirit of the event.

8.4.8 Running without rear support vehicle as described in regulation 6.4.2.

8.5 Protests and appeals

8.5.1 A protest must be lodged in writing and handed directly to the Clerk of Course or his delegate, being any listed official.

8.5.2 A Protest fee of \$55 must accompany any protest.

8.5.3 The decision of the Stewards is final, and binding on all parties.

9. Determination of Winners - Finishers

9.1 The winner will be the first solar cycle of each class to have completed the course in accordance with these regulations.

9.1.1 To be classed as a finisher, a vehicle must have completed the entire course within the time allowed.

9.2 Provisional Result

9.2.1 The progress of solar cycles may be publicised during the event. These results may not include all penalties and, therefore, will not be accurate and final

9.3 Final Result

9.3.1 Final results will be published once passed by the Stewards.

10. Winners and Finishers

10.1 The winning team will make itself available for a press conference if so required.

10.2 Finishing vehicles shall be made available for public exhibition up to the time of the prize giving ceremony.

11. Prizes and Awards

11.1 1st, 2nd and 3rd in each class

11.2 Certificates to all finishers

11.3 Other trophies and prizes to be announced in the Further Regulations.

12. Advertising and Publicity of Results

12.1 All advertising, sales promotion and publicity material produced by or in connection with the entrants or

their sponsors, concerning or referring to, the Event, shall refer prominently to the Event by the correct title as defined in Regulation 1, and all entrants shall, by entering the Event, specifically agree to abide by this Regulation.

- 12.2** Photographs, drawings, vehicle specifications and background information for the program must be provided by 2 July 2001.
- 12.3** By entering the Event, teams agree to the free use of their names and photographs, and those of their vehicles and equipment in any publicity material that may be issued by the Organisers and the Event's principal sponsors and its associated companies.
- 12.4** All teams will provide the organiser with a precis of their achievements, which may be published in a post-event report.