

Track (Able and Para) Trial Recording & Environmental Standardisation Protocol



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1 ELIGIBILITY REQUIREMENTS FOR CONSIDERATION OF A PERFORMANCE:

- 1.1 All competition or timed trials conducted for the purpose of achieving specific performance selection criteria – including but not limited to National Team selection, and athlete categorisation – are to be conducted only within Union Cycliste International (UCI) or AusCycling (AC) sanctioned competitions, or in AC conducted/approved trials in controlled conditions.
- 1.2 The conditions in which the performance was conducted must satisfy the following:
 - 1.2.1 If the performance is recorded in a timed trial, the performance must be witnessed by at least one of the following:
 - AusCycling EGM – Performance (EGM-P),
 - A National Discipline Head Coach,
 - A National Discipline Coach,
 - A State Institute or Academy Coach,
 - A member of the relevant National Selection Committee,
 - UCI Commissaire (for trials held overseas),
 - A suitably experienced person nominated by either the EGM-P or the National Discipline Head Coach or the Director of Pathways.
 - 1.2.2 The bicycle, rider, clothing, helmet, event conditions, and performance must satisfy the UCI regulations for the event in question. This includes trials for subsections of events, e.g. a standing 250m trial shall be conducted according to the UCI regulations for the Team Sprint.
- 1.3 Compliance with the UCI regulations shall be determined by a commissaire qualified as an Australian National Commissaire or above. The commissaire must be officiating the competition or trial.



- 1.4 The performance may not be conducted on the Krylatskoye Sports Complex Velodrome, Moscow, Russia.
- 1.5 The altitude of the velodrome must be less than or equal to 400m above sea level and the air density must be greater than or equal to 1.1200kg/m^3 .
- 1.6 The air density must be recorded at the time of the trial in accordance with section 3 and appendix 1.
- 1.7 An electronic timing system must be used if available, the timing system may use either:
 - RFID, or,
 - Contact strips.
- 1.8 The total performance time must be recorded, and in the case of an event with a standing start, the first lap must also be recorded.
- 1.9 In the following circumstances the performance must be filmed:
 - electronic timing is unavailable,
 - in the Team Sprint and related trials, e.g. Standing Lap, regardless of the presence of electronic timing.
- 1.10 If the trial is filmed, the video must meet the quality standards outlined in appendix 2.
- 1.11 It is forbidden to use any techniques to manipulate atmospheric or track surface conditions during or before the recording of a performance with the exception of the use of climate control or heating systems fitted in the venue.



2 REQUIREMENTS FOR CONDUCTING AN OUT OF COMPETITION TRIAL

- 2.1 Any athlete wishing to record a performance outside of competition for consideration for selection or categorisation purposes must follow the procedure outlined below.
- 2.1.1 Application must be made in writing, at least 4 weeks in advance of the proposed date. Trials approved outside of that period will be at the discretion of the person responsible for approval.
- 2.1.2 Depending on the purpose of the trial, the application must be made to the relevant responsible person (refer to selection or categorisation documents for contact information):
- For categorisation purposes at the level of Podium Potential or below, to the Director of Pathways.
 - For all other purposes to the Discipline Head Coach, or to the EGM-P.
- 2.1.3 The name and title of the appropriate witness (refer 1.2.1) must be included in the application.
- 2.1.4 The date of the trial may be proposed by the applicant but may be modified by AusCycling subject to logistical considerations, for example but not limited to.
- Staff availability,
 - Velodrome bookings and access,
 - Scheduling multiple trials together.
- 2.1.5 The date of the trial must fall within the selection time period of the relevant selection criteria or categorisation document.
- 2.2 If approved, the trial shall be organised, facilitated, and conducted by either AusCycling Performance, or, where approved by the EGM-P, by the relevant State Institute or Academy of Sport and/or Club.
- 2.3 Out of competition trials must conform to all other standards outlined in this document.
- 2.4 AusCycling reserves the right to run selection or categorisation trials at its discretion with invited athletes without the requirement for invited athletes to request advance approval. These trials **must be pre-approved** by the Discipline Head Coach or EGM-P at least 4-weeks in advance of the proposed date.
- 2.5 Clubs and/or State Institutes or Academies of Sport may run categorisation trials with invited athletes at the level of Podium Potential or below, including non-categorised athletes, without the requirement for invited athletes to individually request advance approval. These trials **must be pre-approved** by the Director of Pathways. Clubs and/or



State Institutes or Academies of Sport must seek approval at least 4-weeks in advance of the proposed trial date.

3 CONDITIONS RECORDING & ENVIRONMENTAL STANDARDISATION:

- 3.1 Environmental conditions information must be recorded at the time of the performance in accordance with the following:
 - 3.1.1 The environmental conditions must be recorded at track level in the air density by a National Discipline Coach, SIS/SAS Coach, SIS/SAS Sports Scientist, or National Selector, within 15 minutes pre or post-performance, using an appropriate instrument calibrated by a NATA (National Association of Testing Authorities) accredited calibration lab, or equivalent. The stated accuracy of the instrument must meet or exceed the accuracy values outlined in appendix 1. The instrument must be turned on and left running for at least 60 minutes prior the first trial.
 - 3.1.2 The parameters that should be recorded are:
 - **Temperature** in degrees Celsius (°C);
 - **Atmospheric Pressure (Station Pressure)**, in Hectopascals (hPa);
 - **Relative Humidity** in percent (%).
 - 3.1.3 In cases where an incorrect environmental parameter is recorded, e.g. Barometric Pressure instead of Atmospheric Pressure (Station Pressure), the correct value may be approximated using provided values, map data, and local weather station data; according to AC's conditions approximation process and using the calculators at <https://weather.auscycling.org.au/calculations>.
- 3.2 The air density will be computed as described in Appendix 1.
- 3.3 For all events the environmental conditions will be applied against the times recorded through the latest version of the [AusCycling Environmental Conditions Correction Tool](#).
- 3.4 If two performances need to be compared, where electronic timing is not available for one of the performances, the result recorded on electronic timing should be rounded down to the nearest 100th of a second.
- 3.5 If two times recorded at different events fall within the computed error margin, they will be considered the same time for selection purposes. This will not apply if the times are recorded at the same event, where errors will be considered identical.



APPENDIX 1 – PARAMETERISATION OF ENVIRONMENTAL CONDITIONS

Definition of the standard atmosphere for environmental correction.

The standard atmosphere is defined by the following parameters:

Temperature:	26°C
Atmospheric Pressure (Station Pressure):	1013hPa
Relative Humidity:	50%
Result air density:	1.172298 kg/m³

An error margin will be calculated based on the standard error of a Kestrel 5200 Weather Meter as stated by the manufacturer:

- **Temperature:** +/- 0.5°C
- **Atmospheric Pressure:** +/- 1.5 hPa
- **Relative Humidity:** +/- 2%
- **Coverage Factor (k):** 2

Air density will be computed according to NIST – CIPM-2007.



APPENDIX 2– VIDEO RECORDING AND QUALITY STANDARDS

Where required, a digital video camera with the following minimum settings shall be used to capture each trial. The specifications for video format are:

- **Resolution** of at least 1280x720 (min. 921,600 pixels) **progressive scan**;
- **Frame Rate** of at least 50 frames per second;
- **Shutter Speed** of at least 1/240th of a second.

In any standing start event the video must include the red and green lights on top of the semaphore board during the countdown and at gate release.

The athlete must be in full view for the entire duration of the trial for the video to be considered valid.

Track distance markings must be visible.