



World Para Powerlifting

Appendix 7: Scoring System Requirements

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International Paralympic Committee

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1 Scoring System

- 1.1 To receive a level of service in the area of results and technology which is congruent with the professionalism, integrity and intent of WPPO there must be guidelines in place for LOCs of WPPO Recognised Competitions to follow.
- 1.2 The WPPO scoring system is formed of the following:
 - 1.2.1 Timing and Scoring System (T&S)
 - 1.2.2 On Venue Results (OVR)
 - 1.2.2.1 Para Sports Results and Information Services (PARIS), with the exception of the Paralympic Games (PRIS), Commonwealth Games (CRIS) and Parapan American Games (pPRIS) where their specific information services must be used;
 - 1.2.3 Para Powerlifting Competition and Operations Management System (Power COMS)

2 PARIS & PRIS

- 2.1 The PARIS and/or PRIS where applicable should be used by the LOC and its technology supplier to understand the need to provide information before, during and after the event, the needs of sport in the execution of the event, and the needs to work with all functional groups to be able to provide a successful event.
- 2.2 The precise definition of procedures related to requirements will assist in the successful implementation of the technical solutions. This is mandatory for the LOC and its technology suppliers in order to develop and implement efficient systems that will meet user expectations.
- 2.3 It is important for the LOC and its technology suppliers to realise that the PARIS and PRIS documents do not provide all specifications necessary to produce software applications needed to deliver the required services.

3 Timing and Scoring System (T&S)

- 3.1 The WPPO T&S is formed by the following:
 - 3.1.1 WPPO Lights System: consisting of one (1) lights results console, competition clock, three (3) Referee and/or Jury consoles and three (3) Referee and/or Jury terminals:
 - 3.1.1.1 The lights results console: receives the final decision from the three (3) Referee and/or Jury consoles of the attempts and controls the competition clock.

- 3.1.1.2 The Competition Clock: The system must have a configurable (20´) countdown clock to be used ahead of the start of competition. It should have a 3 minutes count down and start and also from 2 minutes countdown to start, and the option to change from 2 to 3 according to the sport's needs. It must have a 1-minute (warning) buzzer and the time out buzzer where the clock should automatically sound if the available time has elapsed. The clock will be controlled by the Technical Announcer.
- 3.1.1.3 Referee/Jury device: The three (3) consoles which can be wireless (preferable) or with cables, one (1) for each Referee/Jury who will make their own decisions following each lift with buttons:
- 3.1.2 One (1) white button to indicate a good lift and four (4) buttons to indicate a no lift for a wrong sequence execution as follows:
- a) Turquoise for Body Position Sequence (BP)
 - b) Blue for Down Sequence (DS)
 - c) Orange for Stop Sequence (SS)
 - d) Purple for Press Sequence (PS)
- 3.1.3 The Referee/Jury device decision (signal) goes automatically to the attempt boards on the FOP and warm up area and will be displayed in two (2) rows as follows:
- 3.1.3.1 The first row should indicate three (3) lights: White for a Good Lift and Red for a No lift.
- 3.1.3.2 The second row could indicate one (1) or all the four (4) lights (turquoise, blue, orange and purple) showing the wrong sequence execution.
- 3.1.4 The two (2) rows of lights must be arranged horizontally to correspond with the positions of the three (3) Referees. It should display all of these lights at the same time; lights must never illuminate separately.
- 3.1.5 Once the Referee and/or Jury has pressed the button it will be locked so that the decision cannot be changed. The Referee/Jury consoles should have a vibrate function or alarm that should be automatically activated if any of the Referee/Jury fail to press any button.

4 Attempt Board

- 4.1 The attempt boards are TVs that will show the WPPO lights system information and must be displayed in the most visible and practical place on the FOP and warm up area so that everyone can easily follow the running of the competition.
- 4.2 At WPPO Sanctioned Competitions six (6) attempt boards (all provided by the LOC) are needed on the FOP and warm up area as follows:
 - 4.2.1 FOP: a total of three (3) attempt boards:
 - 4.2.1.1 Two (2) must be placed on the backdrop at each side of the entrance and exit doors to the FOP facing the spectators.
 - 4.2.1.2 One (1) must be placed on one corner of the stage facing the Chief Jury.
 - 4.2.2 Warm up: three (3) attempt boards:
 - 4.2.2.1 One (1) close to the entrance door to the FOP and;
 - 4.2.2.2 Two (2) that will be placed as needed
 - 4.2.3 For National Competitions where only one (1) attempt board is provided it should always be placed at the exit side of the FOP.
 - 4.2.4 The attempt board must always display:
 - 4.2.4.1 Picture of the Athlete
 - 4.2.4.2 Lot number;
 - 4.2.4.3 Competing Athlete with family and given name;
 - 4.2.4.4 NPC flag or code;
 - 4.2.4.5 Attempt number / The Power Lift;
 - 4.2.4.6 Running time (countdown from 2 or 3 min accordingly);
 - 4.2.4.7 Event category;
 - 4.2.4.8 Rack height;
 - 4.2.4.9 Colour weights indicated, weight (kg)
 - 4.2.4.10 Indicated if it is WR/RR;
 - 4.2.4.11 Successful / No lift indicator (lights) for each Jury (white and red)
 - 4.2.4.12 Wrong sequence execution for a No lift indicator (lights) for each Jury (turquoise, blue, orange and purple).

5 On Venue Results System (OVR)

5.1 OVR

- 5.1.1 The provision of information to spectators at the venues is a critical part of the success of the event, keeping those who know the sport informed and those that are new to the sport enlightened and entertained. The system will show the competition information and results on the scoreboard in the order in which they will lift based on 1st attempts given at the weigh-in, their country, and the result of each lift, best lift and ranking.

5.2 Scoreboard

- 5.2.1 A minimum 6mx4m video style scoreboard must be set up and displayed in the most practical and visible place on the FOP (usually on the backdrop behind of the platform (central position from a minimum height of 2.5m from the stage) and/or on either side of the backdrop (usually outside of the 12m stage).

5.3 Real-Time Display System (RTDS):

- 5.3.1 The provision of information to Athletes, Team Officials and Technical Officials at the competition venue and in the warm up area is critical to the operation of the competition. The RTDS provides this key and full information on TVs (45-50") plasma screens in the "back-of-house" areas of the competition venue as well as on the FOP for the technical and Jury table.
- 5.3.2 This information is used by Team Officials and Athletes to monitor the progress of competition and to plot their strategy in selecting weights for their next lift. It is also used by Technical Officials to ensure the smooth operation of the competition and the orderly flow of Athletes to the lifting platform.

6 Para Powerlifting Competition and Operations Management System (Power COMS)

- 6.1 The Power COMS system controls and manages the entire flow of the competition, including the submission of Lift Challenges and attempts (recorded directly within this system via the Electronic Marshall [eMarshall]).
- 6.2 At all Games, WPPPO Championships and WPPPO Sanctioned Competitions, an electronic timing system must be used.

7 Lift Video Replay System (LiftVRS)

- 7.1 Three (3) Referee and/or Jury consoles as described above.
- 7.2 Three (3) cameras: the cameras must be positioned as close as possible to the Chief Referee, Left Referee and Right Referee's viewpoint on a stable tripod at least ninety (90) cm in height from the stage. The cameras' feed must be connected to the terminals, scoreboard and broadcast.
- 7.3 Three (3) Referee or Jury terminals: the terminals must be located next to the Referees or Jury Members respectively.
 - 7.3.1 The terminal should always display the one (1) minute lift challenge time and should always count down automatically as soon as the Referee's decision is showed upon the attempt board. The clock should then remain at 0:00 until the one (1) minute time limit is automatically reset when the next Athlete's result is displayed upon the attempt boards.
- 7.4 One (1) Operator terminal: the terminal must be located next to the Lift Video Replay System Operator which connects the cameras, terminals, scoreboard and broadcast.
- 7.5 The Lift Video Replay System must serve multiple purposes, specifically video archiving for later use for the Lift Educational Video Database (LiftED) educational, developmental and scientific analysis purposes.