

Update Report

To: UIPM Equipment Commission

November 2019

Based on the Equipment Commission Meeting 2019 and UIPM agenda several topics have been addressed and implemented. As always not all of what has been discussed could be realized, or is still ongoing.

It is foreseen to hold an Equipment Commission meeting in 2020 also with the perspective of the next Olympic cycle 2021 -2024 in mind; in order to discuss current equipment situation and regulations in detail.

The following actions were taken in 2019:

Fencing:

- **New safety standards for fencing masks** adopted and enforced since January 2019
- **Homologation of UIPM Scoring Apparatus** and utilized in all major UIPM competition for the outdoor fencing bonus round. All major UIPM events are using the same, donated type of Absolute Fencing machine.
- **Wireless fencing** has been tested and used during European Championships for the Fencing Bonus Round. The current wireless system could be used on the bonus piste successfully indoors. The system can also be set up outdoors; but requires some more improvements from technical side in order to cope with more challenging wireless environment, such as wide-open space and humidity. Once such improvements are done, testing can start to have it ready in the future for outdoors as well.

Laser-Run:

- **Spectator lights:** A new additional, unified interface description was developed, after having gone through several iterations with providers. This document gives the technical background and specification for the UIPM-Light-Interface (ULI). The final version was distributed to all providers and are available to new ones. First spectator lights according to the new specifications have been successfully homologated and at the Olympic Games in Tokyo 2020 the new standard will be used. The new standard will allow to connect different target types with different spectator lights on a unified basis for all new products.
- **Random tests for targets** in the market started and is still going on. It is to discuss to enlarge such random testing for LPT targets in the market as well; together with **re-homologation of existing products** for next Olympic cycle this topic was raised as important by the Equipment Commission during the last meeting.
- **Pistol tests** were conducted at selected competitions during the 2019 season. 350 pistols were tested on competitions, with focus on U19/ U17 categories. 6 pistols needed an update on site; 1 pistol did not comply to the regulations (power too weak). Mainly old pistols needed an update, but overall the efforts made over the past 2 years to eliminate noncomplying pistols paid off and can be seen as completed. A proposal how to proceed in the future with pistol tests (randomly or scheduled) is to discuss in next meeting. Long Code is still a selectable option on some older pistol types. This is less of a problem or an advantage during a competition as long as targets with "First Impact Detection" capabilities are in use. But this Signal Code structure does not fulfil the Laser Class 1 specification. Therefore, clearly forbidden to use for safety reasons.
- **Laser Power Measurement:** UIPM and all providers have used the same tool until now, from the Lasermet (GBR) company. Meanwhile, this product is not on the market anymore. Moreover, no service is offered by that company anymore. For the future a solution is needed in case onsite measurement should be conducted further and to be aligned with providers.

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- **Extended Homologation:** Disturbance by optical and non-optical Signals (electromagnetic interferences) can be an issue sometimes. This could be a topic for target equipment tests in the future, as it flags up on competition sites from time to time; luckily so far without any interference of the shooting (only unsuccessful attempts).
- **Variations documentation** of changes made – still according to the rules, but in addition to originally homologated product type. Change log documentation. This process needs to be regulated for the future.
- **WiFi/ Radio frequency modules** as some providers offer as new technologies and apps for their (target) products need stricter regulations and clarifications to protect secure competition environment. Also this part needs to be strictly regulated for the future.