BACKGROUND

At the 2022 AGM of the iQFOiL class association, it was approved that a measurement working party would be set up to look at measurement issues, predominantly around the foils, but not exclusive to.

WORKING PARTY

The iQFOiL Executive committee appointed the following persons to the working party; Dan Arnon (Starboard Rep), Gonzalo Costa Hoevel (Class Manager), Bas Edmonds (Class Technical Committee), Nicolas Goyard (Executive), Dina Kowalyshyn (Class Technical Committee), Jaime Navarro (World Sailing), Sharar Tibi supported by Valerie Boutet-Massonneau (Class Executive Secretary).

MEETING – 16 DECEMBER 2022

Update received from GCH regarding World Sailing purchasing a scanner – of which the iQFOiL, Nacra 17 and Kite class associations had each been requested to support with £7000 in financial backing. The scanner was the same as trialled at the 2022 World Championships in Brest. World Sailing would make the scanner available for principal events and would be responsible for training three specially trained operatives to work the scanner.

GCH confirmed that Sonic, the current foil manufacturer, had also committed to purchasing the same scanner to measure foils for compliance before they left the factory.

The Measurement WP felt that this was a positive step and confirmed the following decisions/observations;

1. That financial support should be offered to World Sailing but that a pre-condition of the financial support would be that WS also travel to Sonic to ensure consistency in application between WS measurement protocols and factory measurement protocols.
2. That information should be provided on Sonic production which would include;
    a) Number of moulds in production,
    b) Number of foils built from each mould,
    c) Design and construction of mould including how a new mould is built (ie from a master plug or from an electronic file).
3. That there was a difference between manufacturing control and event inspection – controlling the factory output did not necessarily solve issues seen at events – more research required over the life span of a foil to understand if foils moved etc.
4. That the overall aim of the scanner purchase would be to understand the production tolerances of a foil in order to narrow these down where practical. The Measurement WP agreed that the measurement tolerances or design file should not be released beyond the WP/Technical Committee.

5. The secondary aim of the scanner is to understand how it may contribute to supporting equipment inspection at events.
6. That the work that Starboard/Dan Arnon had been doing was clearly recognised and thanked. Where templates were being produced for factory use, especially around the tips of the front wing, these should be made available via 3D print file to the class.

The Measurement WP concluded the meeting with a view that understanding output from Sonic was useful to understand the scope of what the scanner may be used to achieve.
FRA as submitting nation of the WP was in agreement with the outcomes of the meeting.