

# 2.4mR TC MEETING 22 March 2023 (notes in blue)

## Present

Peter Russell (AUS) Bruce Millar (CAN) Rikard Bjurstrom (FIN) Heiko Kroeger (GER) 2.4 NOD boat scan report

## **Apologies**

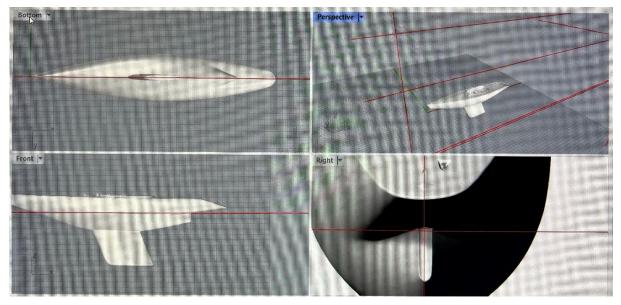
Stellan Berlin (SWE) Keith Gordon (GBR) Thomas Jatch (GER)

## **General Business**

1. 2.4 NOD boat scan

22.03.2023 Heiko Kroger advised 2.4 NOD boat scan completed by Vmax Yachting, Max Gurgel. Two deck scans required to resolve data file. Scan precision is excellent at 0.5mm. Scan ready end March for distribution. Scan will be available in low and high resolution to assist distribution. Distribution control agreement to be resolved. File security to be resolved with dropbox and 2 x hard drive backups.

2point4 Laser Scan Screen Recording 2023\_03\_22 issued by Heiko Kroger explains scan findings. The hull is nearly symetrical. Minor keel bend to starboard. Port deck high near cockpit. Minor hollow in hull near keel.



## 2. TC Advice Notes

22.03.2023 TC advice notes as follows approved by TC for website publication.

- ✤ CARBON MAST SPAR FITTINGS
- SAIL AREA sail foot median and tack class rules proposal
- ✤ IS A HATCH AN OPENING
- ✤ IDENTIFICATION ON SAILS
- ✤ SAIL CERTIFICATION

## 3. Deck Openings

25.03.2023 Deck openings to 2.4mR checked based on averaged dimensions as follows:

- Cockpit = 0.483m<sup>2</sup>
- ✤ Mast = 0.009m<sup>2</sup>
- Rudder = 0.038m<sup>2</sup>
- Other = 0.002m<sup>2</sup> (shrouds, drains etc)
- TOTAL =  $0.532m^2$
- RULE = 0.7m<sup>2</sup> MAXIMUM

#### 4. Station 0

14.12.2022 Bruce Millar noted some boats 3mm to narrow at station 0 – definition to be checked.

#### 5. Buoyancy Checks

22.03.2023 Request for Tony Pocklington Buoyancy Check Certification approved by TC.

22.03.2023 Nominations for Paul Schroeder (GBR), Rupert Smith (GBR) and John Patrick (IRE) as Buoyancy Certifiers recieved by ICA on 26.02.2023.

ICA advised Buoyancy Certifier applications need to demonstrate competency either by current or past measurement qualifications or endorsement by an Official Measurer. Buoyancy Certifier is a Measurer role appointed by the ICA (not NCA) where the person needs to have knowledge of the Class Rules and the ERS, respect competitors and officials and be aware of conflicts of interest.

Keith Gordon has done training with Paul Schroeder, Rupert Smith and John Patrick. Keith Gordon to provide endorsement of nominations for TC review as requested 15.03.2023.

#### 6. 2.4 NOD Hull Stickers

22.03.2023 Rikard Bjurstrom to follow up origional hull sticker supplier. New 2.4 NOD plaques to commence at no. 1000, different green colour required, reference to *«Licence»* to be deleted, Bruce Millar to check artwork.

## 7. ICA Constitution

22.03.2023 Proposed ICA Constitution reviewed, Peter Russell to prepare update for EC review.

- TC to be maximum five (5) members.
- TC to report to EC, no time limit.
- TC to liase with World Sailing on technical matters.
- TC to provide guidance only for World and Continental Championship Equipment Inspection.
- TC to maintain Official Measurer database, publication by MNAs.
- TC to appoint Buoyancy Certifiers and maintain database, publication by NCAs.
- TC to review 2.4 NOD Accredited Builder applications and quality control.
- TC and Chairperson to be elected for period of two (2) years, no time limit.
- Part 20 Amendments to be consistent with AGM process.

Note TC to review Class Chief Measurer role. Chief Measurer appointment? TC is responsible for guidance on equipment inspection precedures at 2.4mR class regattas. TC Chairman leads TC duties. Class IM is responsible for prototype production boat measurement to WS Regulation 10. Official Measurers certify 2.4mR boats. ICA certifies 2.4 NOD boats.

## **Next Meeting**

Canada	1.00pm Wednesday 19 April 2023
UK	8.00pm Wednesday 19 April 2023
Sweden	9.00pm Wednesday 19 April 2023
Germany	9.00pm Wednesday 19 April 2023
Finland	10.00pm Wednesday 19 April 2023
Australia	6.00am Thursday 20 April 2023

## 2023 2.4mR TC Work Program

## A EC Meetings

Bruce Millar to act as TC representative for EC meetings. TC meeting minutes to be issued to EC and website for information. EC/TC to review Mid-year Measurement Forum 2023.

## **B** ICA Constitution

TC to review proposed ICA Constitution including TC responsibilities for official measurers, buoyancy check persons, 2.4 NOD builders and EC coordination.

22.03.2023 Proposed ICA Constitution reviewed, Peter Russell to prepare update for EC review – see General Business.

## C 2.4mR and 2.4 NOD classes

TC to review 2,4mR and 2.4 NOD class descriptions for website.

14.12.2022 Peter Russell working to improve 2.4mR and 2.4 NOD description. Copy to be forwarded to Loic Eonnet (FRA) to develop description. Draft wording attached for review:

The International 2.4mR Class Association is the world organization that governs the International 2.4mR Class (2.4mR) and the 2.4 Norlin One Design Class (2.4 NOD).

All 2.4mR boats comply with the 2.4mR Rating Rule.

The 2.4mR World Championship includes all 2.4mR boats with the first boat awarded the World Cup Trophy and the first 2.4 NOD boat awarded the 2.4 NOD Trophy.

## INTERNATIONAL 2.4mR CLASS

The International 2.4mR Class is a development class with boats complying with the 2.4mR **Open Class Rules**. 2.4mR boats are administered by Member National Authorities under delegation by World Sailing.

The 2.4mR class rule provides a development option for sailors looking at innovation within the meter rule which has produced beautiful boats for over a century.

*Current production 2.4mR boats include the Super 3 and Stradivari. Home built 2.4mR boats can also be built under this rule.* 

## 2.4 NORLIN ONE DESIGN CLASS

The 2.4 Norlin One Design (NOD) is a restricted class with boats complying with the 2.4 NOD **Closed Class Rules.** 2.4 NOD boats are a class of 2.4mR boat, based on the Norlin Mk III design and administered by the 2.4mR ICA.

The 2.4 NOD class rule provides a one-design option for sailors with racing in boats of equal performance where results are determined by the skill of the sailor. The 2.4 NOD has been selected by World Sailing as the single person technical equipment for Para Sailing.

2.4 NOD boats are manufacturer controlled with the ICA looking at accreditation of new builders. 2.4 NOD builders know that they are building a standard product that will not be outdated and is subject to quality control.

18.01.2023 No advice received on proposed description. Peter Russell to forward to EC for review and website update.

## D 2.4mR Class Rules

TC to obtain WS approval of seat and headsail boom amendments. TC to review headsail and mainsail foot median class rule requirement.

## E 2.4 NOD Class Rules

TC to publish 2.4 NOD Class Rules and Constrcution Manual as approved 2022 eAGM.

14.12.2022 2.4 NOD Class Rules 2022 and 2.4 NOD Construction Manual 2022 to be issued to ICA for website.

## F 2.4 NOD Boat Scan

TC to manage NOD digital file production by VmaxYachting as aproved by EC 2 December 2022.

14.12.2022 Bruce Millar working with Heiko Kroger and Thomas Jatsch to complete 2.4 NOD boat scan, scan media including backup to be finalise.

18.01.2023 Bruce Millar advised scan expected mid February for issue to 2.4 NOD Accredited Builders.

22.02.2023 Bruce Millar advised scan delayed - completion now due March 2023.

22.03.2023 Heiko Kroger presented 2.4 NOD boat scan video - see General Business.

#### G 2.4mR Measurement Forms

TC to review 2.4mR measurement forms including certification section for WS approval.

14.12.2022 Rikard Bjurstom to forward eform used for 6m & 8m boats for reference.

18.01.2023 Measurement eform to be reviewed for adoption as 2.4mR measurement form, WS plaque number required on each page.

22.02.2023 Measurement eform to be reviewed for adoption as 2.4mR measurement form, WS plaque number required on each page.

#### H 2.4mR Rating Certificates

TC to review standard 2.4mR Rating Certificates for NCAs responsible for class administration.

14.12.2022 Bruce Millar to forward current Canada Rating Certificate for reference, valid Rating Certificate to include Measurement Form and Buoyancy Certificate.

#### I NOD certification

How to get all NOD boats certified? How to inform owners that they are responsible for obtaining NOD certificates and require them to compete at para events? NOD certification explanatory video by Bruce Millar. 2.4 NOD boat event NORs to include requirement for owners to issue certificates to organising authorities.

## J Official Measurer training

TC to review measurer training and certification process oportunities?

14.12.2022 Timeline for WS process to IM qualification to be scheduled, 2 events and IM seminar required.

## K Buoyancy Checks

TC to establish 'competent persons' register for buoyancy checks. Note; Both 2.4mR and 2.4 NOD buoyancy checks can be preformed by a competent individual assigned by the TC.

14.12.2022 Buoyancy Check certificates register to be established, TC to consider addition to website for event organiser information?

## L 2.4mR boat builders

2.4mR builders are as follows:

- SUPER 3 (UNITED KINGDOM)
- ✤ MALMSTÈN BOATS (SWEDEŃ)

## M 2.4 NOD boat builders

2.4 NOD interested builders are as follows:

- United Kingdom (Brian Harding)
- USA (Rudy Trejo)
- Australia (Michael Bunyard)
- Germany (Thomas Bergner)
- Finland (Evert Aartsen) 10 boats to be manufactured 2023, monitoring program to ensure complete boats and payment schedule by FIN.

TC contact person to be agreed for potential builders.

- United Kingdom TC contact tbc
- USA TC contact Bruce Millar

- Australia TC contact Peter Russell
- Germany TC contact Thomas Jatsch
- Finland TC contact Rikard Bjurstrom

14.12.2022 Brian Harding to be advised that 2.4 NOD Accredited Builder Agreement is under preparation, Bruce Millar is happy to be the GBR TC contact person.

14.12.2022 Evert Aartson to be advised that 2.4 NOD Accredited Builder Agreement is under preparation, Rikard Bjurstrom is happy to be the FIN TC contact person.

22.03.2023 Ab Skim Kayaks Finland Oy 2.4 NOD builder represented by Evert Aartsen inspected by IM Matti Muoniovaara and OM Rikard Bjurstrom on 11.03.2023. Hull mould is previously licensed mould. Hull lamination is 3.62kg/m<sup>2</sup>. Bruce Millar to coordinate Accredited Builder Agreement with Evert Aartsen and EC.

25.03.2023 Bruce Millar to coordinate Accredited Builder Agreement with Brian Harding and EC.

Accredited builder submissions shall include the following details prior 2.4 NOD boat certification:

- Prototype measurement refer WS regulation 10.5 (f) (vi)
- Lay-up design
- Hull/keel stiffness
- Chain plate deflection
- ✤ 2.4mR WS plaque
- ✤ 2.4 NOD plaque
- 2.4 NOD Accredited Builder Declaration

2.4 NOD accredited builder pathway available for issue to potential builders following receipt of applications.

EC to prepare 2.4 NOD accredited builder agreement.

14.12.2022 Bruce Millar preparing draft 2.4 NOD Accredited Builder Agreement for review.

18.01.2023 Draft 2.4 NOD Accredited Builder Agreement prepared by Bruce Millar reviewed by TC. Key issues:

- No ICA financial responsibility
- Complete boats or hull only options
- Manufacture and/or assembly options
- Assembled hull to be capable of measurement to 253-254kg weight with 181kg of lead + corrector weight. Seat/headsail boom exclusion permited.
- Moulds to be in possession of 2.4 NOD Accredited Builder, ownership not required
- Production capacity 10 boats per year with 4 month delivery time failure to meet this requirement does not result in cancellation of Agreement
- Hull only (includes rudder) definition to be reviewed ballast? deck separate? fititngs? control console? Rikard Bjurstrom to check production weights with Evert.
- Complete boat and hull only boats 2.4 NOD Accredited Builder declaration forms to be designed.
- Prototype boat IM measurement check

22.02.2023 Draft 2.4 NOD Accredited Builder Agreement prepared by Bruce Millar reviewed by TC. Final comments from TC to Bruce Millar required by 27 February 2023 to allow for final draft to be submitted for EC approval. Key issues:

- Hull only to be redefined as base hull only delete steering pedals, seat, control console, ballast, mast step, manual pump, backstay fittings (except fittings in hull). Headsail boom deck cutout and mainsheet traveller deck cutout to be scheduled as options.
- Rikard Bjurstrom to check production weights with Evert to inform production weight control plan for hull only boats.

22.03.2023 2.4 NOD Accredited Builder Agreement approved by EC.

 Rikard Bjurstrom to check production weights with Evert to inform production weight control plan for hull only boats.

TC to prepare 2.4 NOD inspection plan based on builder compliance declaration.

14.12.2022 Peter Russell preparing draft 2.4 NOD Accredited Builder Inspection Plan for review, prototype and boat 2 + 3 measurement and compliance declaration, other boats compliance declaration, checklist required.

18.01.2023 Draft Inspection Plan issued to Bruce Millar for 2.4 NOD Accredited Builder Agreement coordination.

22.02.2023 Draft Inspection Plan reviewed. Hull laminate sample to be weighed for checking compliance and weight photo recorded. Hull only to be redefined as base hull only.

22.03.2023 Waterline Declaration Form requirement deleted – Official Measurer's signature to Measurement Form is compliance with Class Rules H.6. Ballast Declaration Form deleted – requirement included in Accredited Builder Declaration Form. 2.4 NOD Inspection Plan approved by TC.

TC to prepare 2.4 NOD Accredited Builder Declaration Form

22.03.2023 Draft Accredited Builder Declkaration Form reviewed. Name of authorised person to tbe added to signature section. 2.4 NOD Accredited Builder Declaration Form appproved by TC.

#### N 2.4mR Finland World Championship 2023

TC to review 2.4mR Finland WC 2023 documents.

#### O WC NOR Template

WC NOR template to be deleted from reference documents and the website – not in accordance with currrent World Sailing (WS) Racing Rules of Sailing.

#### P World Championship inspection plan and forms

TC to review World Championship inspection plans and forms including - Event Form, Inspection Plan, Haul-out Form and Substitution Form.

#### Q 2.4mR World and Continental Championship Management Manual update

TC to update 2.4mR World and Continental Championship Management Manual to clarify divison scoring requirement.

14.12.2022 2.4mR World and Continental Championship Management Manual v.8 update including division scoring instructions to be issued to ICA for website.

#### R Measurement Manual update

TC to revise 2.4mR and 2.4 NOD measurement manuals to new 2022 2.4mR and 2.4 NOD class rules.

#### S Class Rules education

TC to develop a program of class rules education.

The 2.4mR Class is a development class granted international status in 1993. The 2.4mR Class is administered by Member National Authorities (MNAs) under delegation by World Sailing (WS). Where there is no MNA the International Class Association (ICA) may carry out administrative functions.

The 2.4 NOD Class is a restricted class based on the Norlin Mark III introduced in 2011. The 2.4 NOD Class hulls and rudders are manufacturer controlled with rigs and sails measurement controlled. The 2.4 NOD Class is administered by the ICA.

Class Rules are prepared from the World Sailing 'Standard Class Rules template' in accordance with World Sailing recommendations.

«As part of the World Sailing initiative to improve and standardise class rules and certification for the sailor, the Standard Class Rule template and Equipment Rules of Sailing has been developed. Through a common format, individuals can find relevant sections of each class rules easily and effectively. The World Sailing can consult and advise to aid a class in encompassing this rules system within their class. Class Rules are based on the ERS.»

Class Rules are rules that specify the boat, the crew, the personnel and portable equipment, and any other equipment limited by the Class and their certifications and administrations.

The Class Rules are read in conjunction with the Equipment Rules of Sailing (ERS) which provide more general governance of the equipment used in the sport.

It is the owners responsibility to ensure that their boat complies with the Class Rules and has a valid certificate.

#### T Measurer Recognition

TC to develop Measurer jacket/hat for events.

14.12.2022 Thomas Jatsch suggested Measurer jacket/hat be considered for measurere recognition and events.