



TC Meeting 1 September 2022 (notes in blue)

postponed from 25 August 2022 to allow for championship participation

Present

Peter Russell (AUS)

Bruce Millar (CAN)

Stellan Berlin (SWE)

Rikard Bjurgstrom (FIN)

Apologies

Keith Gordon (GBR)

Thomas Jatsch (GER)

General Business

1. 2.4mR Class Mid Year Measurement Forum

30.06.2022 EC to confirm if 2.4mR Class Mid Year Rules Forum is to be held this year as approved by 2021 AGM. TC documents for review address the following issues:

- (1) 2.4mR Class Rules update by WS
- (2) NOD Licenced Builders
- (3) Headsail Boom And Seat Removal
- (4) Flotation Certificate
- (5) Spar Definition
- (6) Sail Numbers
- (7) NOD measurement feedback for NOD Class Rules update consideration

28.07.2022 Mid-Year Measurement Forum suggested to be held one month before AGM to facilitate MNA review of TC proposals and assist AGM timing, noting that World Council approval is required for rule changes to be adopted. TC to finalise documents for issue to MNAs.

01.09.2022 Bruce Millar advised EC program as follows: eAGM - 19 December 2022 with eRules Forum - 8 October 2022. TC noted eRules Forum could be presentation of proposed rules changes only due to proximity to eAGM.

07.09.2022 TC noted limited time for eRules Forum documentation issue to MNAs. Mid-year timing allows time for TC preparation of proposed rules changes in response to eRules Forum recommendations for eAGM approval. EC to review program.

2. ICA Constitution

Bruce Millar noted that Heiko has prepared a new ICA Constitution for review. Peter Russell to issue to TC for consolidated response.

01.09.2022 TC to review TC responsibilities under proposed constitution.

3. 2.4 NOD Builders

Bruce Millar advised Rudy Trejo is possible 2.4 NOD builder in USA, ICA data file required for production.

Peter Russell advised Michael Bunyard is possible 2.4 NOD builder in Australia, new mould production funding has been secured, ICA data file required for production.

2022 2.4mR TC Work Program

A EC Meetings

Bruce Millar to act as TC representative to EC meetings except where Peter Russell required

Bruce Millar advised 2021 AGM Minutes approved for publication (not on website to date).



B NOD certification strategy

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?

26.05.22 Noted that owners think measurement form is certificate. Thomas Jatsch to forward copy of GER forms to TC for review. Bruce Millar to consider explanatory video. Requirement for owners to issue certificate to event organising authorities as part of entry should be included in all NORs. NCAs could be required to collect all NOD forms for certification.

26.05.22 Keith Gordon noted rating certification on 2.4mR measurement form now used by GBR so relevant measurement data included.

28.07.2022 Bruce Millar advised Certification video under production for review.

C Follow-up WS approval of 2015 & 2018 amendments to 2.4mR Class Rules

Stellan Berlin to advise approval status.

30.06.2022 Stellan Berlin issued copy of new 2.4mR Class Rules approved by World Sailing subject to one issue not advised to date – Stellan Berlin to follow-up publication of new rules.

28.07.2022 Stellan Berlin to follow-up publication of new rules.

01.09.2022 Stellan Berlin advised no WS approval of new rules to date – anchor weight ruling under consideration.

D Review NOD Rule Proposal resulting from ERS change

Refer draft 2.4mR TC NOD Class Rule Proposal SPAR

26.05.22 TC members confirmed NOD Class Rule Proposal SPAR supported for WC approval submission.

E Prepare Seat removal rule for 2.4mR and NOD classes

Refer Canada proposal 6

30.06.2022 Draft Seat and Headsail Boom rule reviewed. Possible use of removable seat rule to allow additional ballast in keel discussed – weight control or location above waterline rule to be considered. Standard seat weight is 2.5kg.

28.07.2022 Revised draft Seat and Headsail Boom rule reviewed. Section D.1 to be deleted – refers to hull only not rig. Approval of measurer to be deleted – unnecessary administrative requirement. Rickard suggested weigh limit be added to prevent additional ballast adjustment. TC agreed to add max. 5kg limit to removable seat.

01.09.2022 Revised draft Seat and Headsail Boom rule reviewed. TC agreed D.6.2(b) (4) to be amended to change waterline to floor level reference, maximum fixing tab projection to be amended from 25mm to 100mm to allow for aluminium tabs.

F Prepare Headsail Boom removal rule for 2.4mR and NOD classes

Refer Canada proposal 7

30.06.2022 Draft Seat and Headsail Boom rule reviewed. No comments.

G Establish Official Measurer database

26.04.22 Peter Russell issued draft OM database to TC members for population then issue to NCAs.

01.09.2022 David Foscarini (Canada) added to OM database.

H Measurer training strategy

Class IMs - Keith Gordon + Matti Muoniovaara

26.04.22 Rikard Burjstrom undertaking 2.4mR measurement skilling with Matti Muoniovaara.

Keith Gordon working with Thomas Jatsch with view to obtaining IM qualification subject to IM examination pass, inspections at two events (2021 Para Worlds), 2022 European Championship) now completed – IM exam possible this year, requirement for detailed understanding of ERS noted.

Peter Russell IM application withdrawn.



OM + IM training, additional IMs, regular measurement seminars?

14.04.22 Thomas Jatsch noted that only one OM resulted from measurement seminar despite 20 attendees. OM training suggested as up-skilling approach for people already committed to measurement – 2 potential measurers in Germany.

I NOD manufacturers – no current agreements issued by ICA

NOD Class Rules and Construction Manual are based on licenced builders

«The 2.4 Norlin One Design hulls and rudders shall only be manufactured by Licensed Builders – in the class rules referred to as licensed hull builder. Equipment is required to comply with the 2.4 Norlin One Design Construction Manual and is subject to a manufacturing control system approved by the ICA.»

2.4mR website schedules the following builders:

- OY KAPH GROUP AB (CHARGER SAILING) (FINLAND)
- MALMSTEN BOATS (SWEDEN)
- NOMAD BOATBUILDING (CANADA)
- PURE SAILING (THE NETHERLANDS)
- SUPER 3 (UNITED KINGDOM)
- SUPER 3 (GERMANY)

ICA to review manufacturer control strategies with World Sailing (WS) – amend Class Rules and Construction Manual to World Sailing and ICA World Council agreed strategy in consultation with builders to achieve rule compliance and quality builds.

30.06.2022 Peter Russell paper and EC advice on NOD licences noted:

My concern is that if a change from “licenced” to “class” builders is agreed as the preferred way forward this will need to go through various steps:

- *Discussion with WS as 2.4mR NOD is selected equipment for Para Sailing*
- *Discussion with builders regarding proposed class rule changes to ensure confidence in class administration and agree class rule compliance declaration strategy*
- *Development of 2.4mR NOD Class Rule amendments by TC including WS, builder and EC review*
- *Approval by World Council of 2.4mR NOD Class Rule changes*
- *Development of “class builder” agreement and fees strategy*

A “class builder” rule will need to consider how the class rule compliance declaration will work?

- *Prototype measurement – refer WS regulation 10.5 (f) (vi)*
- *Lay-up design*
- *Hull/keel stiffness*
- *Chain plate deflection*
- *2.4mR Measurement Report*
- *2.4mR NOD Measurement Report*
- *Waterline Length Declaration*
- *WS plaque*
- *NOD plaque*
- *Class Rules Compliance Declaration*
- *Design deviations approval*

30.06.2022 Bruce Millar advised EC meeting 27 June 2022 voted to replace «licenced» builder agreements with «accredited builder» agreements as follows:

Item 1

The word Licence is not supported in the majority.

The EC voted to remove Licence where necessary in builder agreements, class rules, specifications and any other documents and replace with:

Accredited Builder

TC is directed to proceed with changes and updates. World Sailing has indicated to our class president (Heiko) that they are pleased with our Norlin OD rules as controls.

Item 2



Norlin OD Class rules should also include in the Administration section text indicating approval of boats to be eligible for OD measurement if they were built by previously licenced builders.

(Charger, Edge)

Item 3

TC to create a Directive to be sent to all Official Measurers indicating that boats built since the cancellation of builder licencing are eligible for OD measurement if they were built buy previously licenced builders. (Charger, Edge)

Item 4

Specifications are needed for Norlin OD Deck. Recently a boat builder in the UK has built moulds for a Norlin 3 hull and attached a Super 3 deck to this boat. Although these moulds are not yet eligible for Norlin OD they could be in the future but in the Norlin OD builder specification it must be clear about the deck specification.

Item 5

Norlin OD Stickers – Concern of lack of control of the stickers and tracking of which boats go with which stickers. EC decided for now that stickers issued to Edge Sailing for Charger built boats (8 boats?) would be at no cost until further procedures can be established.

Item 6

Engagement of possible builders. Concern was expressed that we do not have a formal means of engagement with possible builders. There needs to be a path to follow so that builders know who the person is that they contact and exchange with for guidance on how to become an Accredited Builder. Is this EC or TC or both?

30.06.2022 TC to prepare NOD Class Rules Interpretation to allow certification of boats built by previously licenced builders.

30.06.2022 TC agreed all NOD boats should be as alike as possible and do not support the use of a Super 3 deck installed on a NOD hull. The hull includes the deck under NOD Class Rule D.1.1. The Super 3 deck mould has not been approved for NOD boats under NOD Class Rule D2.7 (b).

28.07.2022 NOD class rules accredited builder interpretation reviewed. Peter Russell to amend Interpretation to include certification process for boats built by licenced builders to 2019-06-03. Keith Gordon noted (email 09.07.2022) that ICA is not Certification Authority under ERS.

28.07.2022 TC to review NOD Construction Manual.

28.07.2022 EC to review Accredited Builder invitation and agreement.

01.09.2022 EC to confirm instruction to change 2.4 NOD Licenced Builder to 2.4 NOD Accredited Builder.

01.09.2022 Draft Accredited Builder application process reviewed. TC agreed to cover build documentation requirement by reference to 2.4 NOD Class Rules and Construction Manual. TC agreed to add discussion with applicant after initial submission.

It is critical the EC finalises the new Accredited Builder Agreement so the class has a complete system for 2.4 NOD Accredited Builder engagement.

- ❖ 2.4 NOD Accredited Builder Agreement - EC
- ❖ 2.4 NOD Accredited Builder Application - TC
- ❖ 2.4 NOD Class Rules - TC
- ❖ 2.4 NOD Construction Manual - TC
- ❖ 2.4 NOD Data File - TC
- ❖ 2.4 NOD Drawings – TC

J Boat scan for NOD digital file as referenced under NOD Construction Manual

2 DRAWINGS

2.1 DIGITAL DRAWINGS

A licensed Builder will get a data file describing the hull shell. From these data a plug can be produced by MNC technique from which the moulds can be manufactured. Moulds may also be manufactured directly from the data. Templates needed to check moulds and built hulls can be manufactured from the data in the same way.

As an alternative, a licensed Builder may buy moulds from Charger Composites.

26.04.2022 NOD scan by Brian Harding noted.

International 2.4mR Class Association, Technical Committee

$$R = (L + 2d - F + \sqrt{S}) / 2.37 = 2.4$$



30.06.2022 EC recommendation to engage Tony Pocklington to produce a data file describing the hull shell to NOD Construction Manual rule 2.1 at ICA cost with issue to accredited builders controlled under builder agreements supported by TC.

28.07.2022 Bruce Millar confirmed that Tony Pocklington is able to prepare data file. Reference boat to be new Charger with headsail boom recess. Reference boat measurement to be checked before data file preparation. Data file requirement to be extended to include NOD Class Rules template data files to NOD Class Rules section J.

28.07.2022 Rikard Bjurgstrom advised that 11 sets of the templates were manufactured by Charger for distribution to MNAs. Drawings are not held by the ICA. Rikard confirmed Charger does not have J1-J6 drawings. Keith Gordon to issue J1-J6 drawings to TC members.

01.09.2022 TC confirmed ICA data file scan needs to be a controlled scan to the following parameters:

- ❖ The scan needs to be managed by respected, experienced boat builder Tony Pocklington
- ❖ The scan needs to be taken from a recent Charger that has been template measurement checked
- ❖ To be scanned the boat fittings need to be removed and boat setup on baseline
- ❖ The scan needs to be owned by the ICA and freely available to Accredited Boat builders

All existing scans are personal records which cannot not be relied upon to create the future of our class. The ICA scan will be used by Accredited Builders to manufacture hull plugs and the ICA needs to be assured that the data file is from a template measurement checked boat and that the data file has not been modified.

K Review ICA World Championship inspection plan and forms

Event Form
Inspection Plan
Haul-out Form
Substitution Form

L Assist EC with finalisation of updated 2.4mR World and Continental Championship Management Manual

Version 5 addresses RMM-hh1200730 review.

30.06.2022 EC reviewed draft 2.4mR World and Continental Championship Management Manual – comments to be issued to TC for manual update. Consider name change from «Manual» to «Guide». NOR template to be deleted from reference documents and website – not in accordance with current World Sailing Racing Rules of Sailing.

01.09.2022 EC to forward comments to TC for manual update.

M Progress 2.4mR measurement form update – refer Henrik Johnsson draft

N Review Certification Process – any operational issues?

O Review Measurement Manuals - any update required from measurement seminar?

P Class Rules education strategy – advice? newsletters?

A possible starting point?

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

International 2.4mR Class Association, Technical Committee

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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.

30.06.2022 Certification videos to be first Class Rules education program.

Q Sail Numbers – use of plaque numbers for sail numbers.

The Class Rule A.10 follows:

A.10 SAIL NUMBERS

A.10.1 Sail numbers shall be issued by the MNA.

A.10.2 Sail number shall be issued in consecutive order starting at “1”.

A.10.2 Personal sail numbers may be used after decision by the MNA or the NCA.

The intent of the rule is clear.

1. Numbers are issued by the MNA – they are individual country numbers.
2. Numbers are issued in consecutive order and start at 1 – so AUS 1, AUS2 etc
3. Personal sail numbers may be used – this gives flexibility but shouldn't alter the intent of the rule.

28.07.2022 Draft Sail Numbers debate reviewed. TC concern regarding obtaining WS approval – we are still waiting for 2015 and 2018 rule changes to be approved by WS. TC also expressed concern that the change of sail numbers will require recertification of boats at owners cost. TC noted that the use of plaque numbers could regularise numbering where non-consecutive sail numbers have been used by sailors.

01.09.2022 Revised Sail Number debate with TC recommendation to retain existing rule agreed.

R Advise EC on WC NOR Template update.

The WC NOR Template requires updating to be consistent with current World sailing guidelines and the ICA WC Equipment Inspection Plan.

30.06.2022 TC recommends that the NOR template should be deleted from reference documents and website – not in accordance with current World Sailing (WS) Racing Rules of Sailing.

S Buoyancy Certificate – add provision for approved person.

2.4mR Class Rules B.4.3 FLOTATION CHECKS

B.4.3 A boat may carry a separate buoyancy flotation certificate, where an **official measurer** confirms a satisfactory flotation check. The International 2.4 mR buoyancy flotation form shall be used. A flotation check is valid for not more than 5 (five) years.

30.06.2022 Draft Buoyancy Certificate rule reviewed. New 2.4mR Class Rules include provision for «competent individual assigned by Technical Committee» to undertake buoyancy certification – no amendment required. NOD Class Rule amendment to be consistent with new 2.4mR Class Rules. Proposed rule to be «Buoyancy Certificate». Technical Committee to approve «buoyancy certifiers» to keep record for certification checks.

28.07.2022 Keith Gordon noted (email 09.07.2022) that buoyancy check needs to be carried out or witnessed by OM or approved person. Peter Russell to amend NOD proposed rule. Buoyancy Certificate to be updated to WS plaque number.

International 2.4mR Class Association, Technical Committee

$$R = (L + 2d - F + \sqrt{S}) / 2.37 = 2.4$$



01.09.2022 Revised Buoyancy Certificate rule with buoyancy check note agreed.

Updated Buoyancy certificate with flotation checks agreed, corrected form to be uploaded on website.

T 2.4 NOD Class Rules, Construction Manual and Measurement Form review.

01.09.2022 Peter Russell issued draft 2.4 NOD Class Rules, Construction Manual and Measurement Forms update for review.

MEASUREMENT FORM

Boom cross section, mast weight, class rule references and general update completed. Template clearances to be revised to 1mm minimum for keel and rudder sections. Corrected forms to be uploaded on website.

CONSTRUCTION MANUAL

Draft 2.4 NOD Construction Manual update reviewed.

2.1 Hull shell to include deck, keel and standard rudder. Accredited Builder may buy moulds from another Accredited Builder or previously Licenced Builder.

2.2 Drawing reference to be deleted – drawings are not consistent with current 2.4 NOD class rules. 2.4 NOD boats to be manufactured in accordance with the ICA data file.

3.2 Construction compliance with drawings to be deleted. Hull shell lamination to class rule D.2.3 (c). Assembled hull dimensions to correspond to Measurement Form dimensions.. Keel girth dimension to be added. Fittings compliance with drawings to be deleted.

New drawings J1 SECTIONS AND DIMENSIONS and J2 TEMPLATES to be added to Construction Manual.

CLASS RULES

Discussion postponed to next meeting.

Next Meeting:

Canada	3.00pm Wednesday 7 September 2022
UK	8.00pm Wednesday 7 September 2022
Sweden	9.00pm Wednesday 7 September 2022
Germany	9.00pm Wednesday 7 September 2022
Finland	10.00pm Wednesday 7 September 2022
Australia	5.00am Thursday 8 September 2022