

MBSA ORR-EZ BYLAWS 1/9/2018

I INTRODUCTION

Mass Bay Sailing Association (MBSA) intends to offer the ORR-EZ rating system to its members in 2018. These Bylaws spell out the rules and regulations for its implementation.

II ORR-EZ

ORR (Offshore Rating Rule) is a scientific system of rating boats offered by the Offshore Racing Association (ORA). ORR uses a Velocity Prediction Program (VPP) to determine a boat's rating. The system takes sail inventory, course configuration, wind strength and crew weight into account and creates a rating for each combination. ORR-EZ is a more simplified system based on the full ORR system. ORR-EZ is not fully measured and is based entirely on owner-supplied data. It is therefore incumbent upon each owner to be as honest and as complete as possible in applying for their certificate. All variations or modifications from "as-built" are **required** to be declared. ORR will adjust the ratings of boats that have been altered from the as-built configuration to compensate for any expected speed advantage or disadvantage.

At a minimum, the following changes shall be reported:

- Sail measurement changes (P, E, SMW, SL, and Lp)
- Symmetric spinnaker luff length greater than .95 times the square root of (ISP squared plus JC squared) or an asymmetric spinnaker luff length greater than 1.03 times the square root of (ISP squared plus JC or STL squared).
- Spinnaker width greater than 1.8 times J
- Spinnaker pole length greater than J
- Sprit length changes
- Rig height (I) changes
- Boom length (E) changes
- Rig cross section/weight changes
- Rig staying changes *
- Keel/ballast weight changes
- Keel/rudder camber changes **
- Keel/rudder chord changes **
- Keel/rudder depth changes
- Propeller type/size/location changes
- Hull canoe body changes
- Interior modifications ***

* Backstays are exempt and may be made of any material.

** Minor fairing of the hull/keel/rudder is permitted to correct unfairness in production molds. Fairing of the trailing edges of the keel/rudder is permitted provided any chord (fore-aft length) of the keel/rudder is not changed by more than two percent. Fairing of through-hull fittings, rudder gudgeons, and propeller struts is also allowed.

*** Cushions may be removed.

Because ORR-EZ is less accurate than a full ORR certificate, obtaining a full ORR certificate, if desired, will be allowed and accepted.

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III BYLAWS

1. RULE

- 1.1 In addition to the MBSA General Sailing Instructions MBSA will utilize the full ORR-EZ Offshore Racing Rule as published by ORA as a basis for these bylaws. MBSA modifies the ORR-EZ Offshore Racing Rule with the following rules.

For a copy see:

<https://offshoreracingassociation.org/images/stories/ORR-EZ12.09.2018rulebook.pdf>

2. SAILS

- 2.1 MBSA stipulates that two groups of sail inventory will be rated. The first are boats that carry and use Spinnakers. The second are boats that do NOT carry and use spinnakers (free flying sails) and are referred as Jib and Main (JAM) boats.
- 2.2 ORR determines the rating of each boat based on its unique sail inventory. For this reason, the following sails shall be accurately measured and these measurements submitted with the application:
- a) The mainsail
 - b) The largest headsail (see 2.7 definition of Code 0)
 - c) The largest spinnaker (either symmetrical or asymmetrical)
- 2.3 One change in sail measurements is allowed per year (except in extraordinary cases).
- 2.4 One replacement sail (of the same size) may be made for each sail in your inventory per year.
- 2.5 The allowed inventory for Spinnaker classes is as follows:

Mainsails	1
Headsails	5
or 4 headsails plus 1 large roach headsail >50% mid girth foot ratio	4+1=5
Light Staysails	1
Spinnakers	3
Storm Trysails	1
Strom Jib (headsail)	1
Heavy-Weather Jib (headsail)	1
Mizzens	1
Mizzen Staysails	3

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2.6 The allowed inventory for Jib & Main classes is as follows:

Mainsails	1
Headsails	3
or 4 headsails plus 1 large roach headsail >50% mid girth foot ratio	0
Light Staysails	1
Spinnakers	0
Storm Trysails	1
Strom Jib (headsail)	1
Heavy-Weather Jib (headsail)	1
Mizzens	1
Mizzen Staysails	1

- 2.7 Code 0: a) >75% mid-width to foot ratio is a Spinnaker.
b) < 75% and >50% mid-width to foot ratio is a Large Roach Headsail (LRH).
c) < 50% mid-width to foot ratio is a Headsail.

3. COURSES

- 3.1 MBSA intends to start with two course configurations. These may be expanded in future years.
- a) "Windward/Leeward" - which covers all variations of courses that only have windward/leeward legs. These courses are found in the MBSA Standard Courses list and include courses A, B, C, D, H, K and L.
 - b) "Random Leg" - which covers all other course types that include any form of reaching leg(s). These courses are found in the MBSA Standard Courses list and include courses E, F, G, M, and O as well as the MBSA Standard Rounding Marks lists A, B and C.

4. WIND STRENGTH

- 4.1 MBSA intends to start with three wind strength ranges. These may be expanded in future years.
- a) Light (zero to 7.9 knots)
 - b) Medium (8 to 15.9 knots)
 - c) Heavy (16 knots and above)

5. CREW WIEGHT (SIZE)

- 5.1 MBSA intends to start with two configurations. These may be expanded in future years.
- a) Fully Crewed - (see the ORR-EZ Rule III C)
 - b) Double Handed - 2 crew members in total allowed. Crew weight must be declared.