DESIGN GUIDELINES FOR SUPERYACHT FACILITIES

PROPOSED TECHNICAL WORKING GROUP

TERMS OF REFERENCE

1. Historical Background Definition of the Problem

In 2013 PIANC published the document the Working Group Report 134 "Design and Operational Guidelines for Superyacht Facilities".

This document provides guidance on superyacht vessel characteristics, marina planning, berthing systems, utilities, and operational requirements that influence design. While this report was a major contribution when it was published, an update is considered convenient to maintain its relevance.

In the last decade, the evolution of the worldwide superyacht fleet, experience in marina design, feedback from users of the report, and new sustainability and climate mitigation trends have prompted the need to provide updated guidelines. Specific issues include:

- Increase in the size of superyachts demands updates in the geometrical design guidelines,
- Increase in the size of superyachts demands updates in the utility design guidelines,
- further description of berthing systems, including additional design guidance, has been identified by report users as beneficial,
- issues regarding the interpretation of previous report recommendations (e.g. geometrical design of fairways adjacent to side-tie berthing, etc) suggests clarifications will be beneficial,
- updating or expanding operational requirements that influence design will be beneficial,
- ensuring compatibility with WG 148, other sustainability and climate mitigation recommendations, and recent sustainability PIANC reports is recommended,
- significant innovations in new propulsion systems for superyachts should be addressed and additional reference to ongoing WG 217 (as appropriate) should be considered.

RecCom believes that the revised report should promote design approaches that explicitly target sustainability comprehensively, including climate mitigation and adaptation, as intrinsic requirements of planning and design best practices.

2. Objectives

The objective of this working group is to revise and update the report published WG 134 to provide updated practical guidance for design, considering new information on vessel data, design trends and sustainability requirements.

3. Earlier Reports to be Reviewed

- **PIANC RecCom WG 134** "Design and Operational Guidelines for Superyacht Facilities".

- **PIANC RecCom WG 149** "Guidelines for Marina Design"
- **PIANC RecCom WG 148** Guidelines for Sustainable Recreational Navigation Infrastructure - A Guide for Applying Working with Nature to Recreational Navigation Infrastructure".
- Ongoing PIANC WG efforts on sustainability, climate mitigation and climate adaptation.

4. Scope of Work

The scope of work is to update all sections of the WG report, as needed.

The suggested approach includes:

- Revising and updating information about vessel characteristics from available databases and industry reports,
- Updating facility planning and design recommendations, including recommendations for larger vessels, experience with the implementation of previously published guidance, and ensuring compatibility with sustainability recommendations by other PIANC reports,
- Updating the description of berthing systems and considering including additional design guidance,
- Updating utilities design guidance, as needed, including recommendations for larger vessels, experience with the implementation of previously published guidance, and ensuring compatibility with sustainability and climate mitigation recommendations by other PIANC reports,
- Updating operational requirements that influence design,
- Revise the report seeking to promote design approaches that explicitly target sustainability comprehensively, including climate mitigation and adaptation, as intrinsic requirements of planning and design best practices.

5. Intended Product

An updated version of the WG 134 report, to maintain its relevance as an international guidance for superyacht facility planning and design.

6. Working Group Membership

Desirable disciplines and experience amongst WG membership may include:

- Marina designers, planners
- Coastal and marine engineers
- Marina developers, owners, and operators
- Coastal planners and regulators

This WG must have adequate international representation to ensure its applicability in different parts of the word, with different geographical/climate conditions, and different regulatory frameworks.

7. Target Audience

The target audience for this WG report are marina designers, engineers, developers, owners, investors, regulators, planners, and marine policy makers.

8. Relevance

8.1. Relevance to Countries in Transition and Small Island Developing States (SIDS)

This report will be useful in jurisdictions that do not have adequate regulatory requirements for the design of superyacht facilities.

Adequate inclusion of sustainability characteristics of facility planning best practices should be beneficial for the sustainable development of luxury yachting in these type of countries.

8.2. Climate Change and Adaptation

This report should be useful to incorporate better guidance for climate change adaptation works in superyacht facility projects.

The report should include an assessment on how the recommended design features will need to adapt to continue achieving the intended goals.

The report should also assess if its recommendations may need to evolve after Climate Change impacts become more significant, for example, if any of the underlying assumptions for the recommendations will not be valid under future conditions.

8.3. Working with Nature

The update of this report is intended to provide a more comprehensive alignment with WwN and other comprehensive sustainability targets promoted by PIANC.

8.4. UN Sustainable Development Goals

This report should contribute to Goal 14: Life below water - "Conserve and sustainably use the oceans, seas and marine resources for sustainable development."

9. References

Superyacht vessel databases.