## Efforts to Address Underwater Vessel Noise at the IMO



**Michelle Sanders** 

- Alternate Permanent Representative of Canada at the International Maritime Organization (IMO)
- IMO Expert Workshop on the relationship between Energy Efficiency and Underwater Radiated Noise

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# **Underwater Noise at the IMO**

2014	<ul> <li>IMO adopted the voluntary Guidelines for the Reduction of Underwater Noise from Commercial Shipping to Address Adverse Impacts on Marine Life (MEPC.1/Circ.833)</li> </ul>
2017/19	<ul> <li>Increased awareness of the issue and its impacts on the marine environment through various submissions, presentations/webinar, events &amp; technical workshops</li> </ul>
2020/21	<ul> <li>MEPC 75/76: New work item to undertake a review of the Guidelines and identification of next steps approved and referred to the Ship Design and Construction (SDC) sub-committee for action</li> </ul>
2022/23	<ul> <li>SDC 8/9 undertook revision of the guidelines &amp; identified preliminary next steps</li> <li>MEPC 80 approved revised guidelines, along with IMO GHG-URN workshop and a 3 year experience-building phase</li> <li>Correspondence Group under Canada's coordination, currently developing an action plan/next steps for finalization at SDC10</li> </ul>

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## **Overview of the Revised Guidelines**

Important structural changes to improve usability

Key substantive changes include:

- Updated application: Guidelines apply to ships of all sizes and types (including non-commercial ships)
- Maritime administrations included as a relevant stakeholder in helping establish mechanisms and programs through which noise reduction efforts can be realized;
- Reflects the current state of knowledge in technologies to reduce URN, including further distinction on measures to be applied for new vessels versus existing vessels;
- New guidance on improved voyage planning and national and international designated protected areas



## **Overview of the Revised Guidelines**

#### New sections:

#### > Underwater Radiated Noise Management Planning:

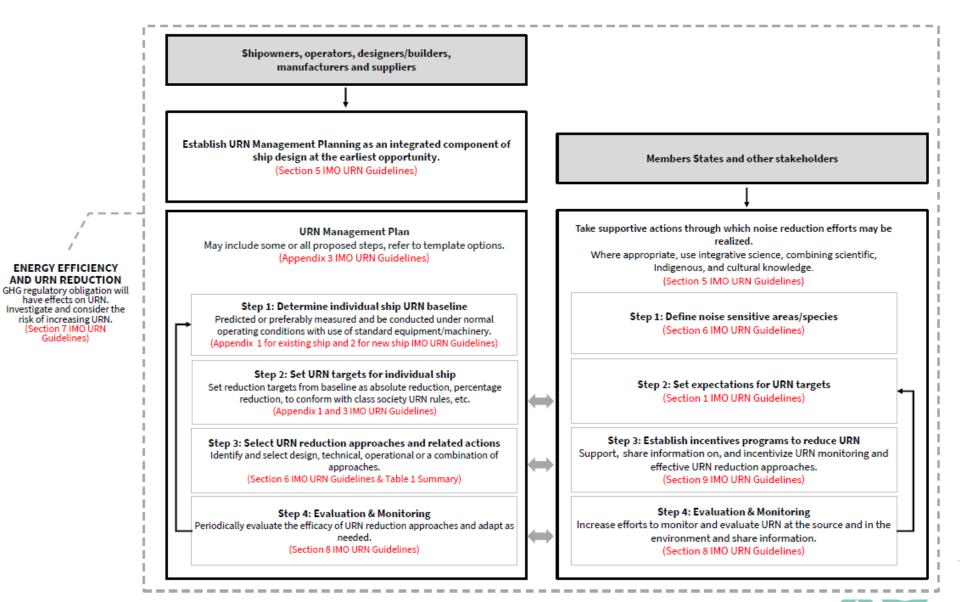
- Guidance on how to prepare a noise management plan, including:
  - Establishing the baseline (predicted or actual) of a ship's URN;
  - Setting URN goals;
  - Evaluating/monitoring various technological, operational, and maintenance approaches while ensuring that these approaches do not come at the expense of other mandatory IMO requirements.
- Includes an Annex with templates for the preparation of a UNMP

#### Incentivization

#### Energy efficiency and URN reduction



### **URN Reference Chart**



## **URN proposed Action Plan**

Expecting Working Group at SDC 10/January 2024

#### Over 40 proposed actions

Includes actions related to:

- Experience-Building Phase (EBP)
- Public awareness, Education and Seafarer Training
- Standardization of Noise Management Planning
- URN Goals
- Database/Tools
- Policy for URN Reduction (including proposal to develop an IMO road-map/vision)
- Ongoing research

## URN proposed Action Plan:

#### - Encourage research on URN and GHG

- A few actions are being proposed to encourage research on URN and GHG, raising the importance of further evaluating the effects of the GHG regulations on global levels of URN. This includes:
  - Continue research and development efforts addressing commonly used energy efficiency measures, including IMO GHG regulations (EEDI, EEXI, CIII) and their impacts on URN.
  - Initiate research and development activities addressing innovative technologies that further enhance energy efficiency, address biofouling, and greenhouse gas and underwater noise reduction of ships.



## **GloNoise Partnership Project**

- Original work output approved at MEPC 76:
  - •Requested that IMO Secretariat investigate possible funding with potential donors, such as the Global Environment Facility (GEF), to conduct a global underwater noise project, to:
    - Assist with the implementation of related IMO guidelines;
    - Build capacity in developing countries;
    - Spur global efforts to develop a solid scientific understanding of the marine URN issues; and
    - Stimulate industry to start adopting best practices to minimize the impact and create new design solutions.
- Call for proposals for pilot projects issued last fall



# **Next Steps**

- SDC 10 meeting (January 2024):
  - EE-URN workshop outcomes report
  - URN CG final report
  - SDC 10 WG:
    - Finalizing the next steps/action plan
    - Finalizing a flowchart on the URN Management Plan to be used as an awareness tool
- SDC 10 report and recommendation to MEPC
- 3-year Experience-Building Phase to assess if further amendments to the Guidelines are needed.
- Official launch of the GloNoise Project



# Thank you !



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