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GUIDELINES FOR DEVELOPING AN ENVIRONMENTAL INSTRUCTION FOR OPERATIONS IN THE NORWEGIAN WORLD HERITAGE FJORDS

1. The requirements for the World Heritage fjords include special provisions regarding the discharge of sewage and grey water into the World Heritage fjords, cf. section 10a of the Regulations of 30 May 2012 No. 488 on environmental safety for ships and mobile offshore units (Environmental Safety Regulations).
2. For operations in the World Heritage fjords, the following special requirements apply:
 - 2.1. a prohibition against the discharge of sewage and grey water (section 10a);
 - 2.2. stricter requirements for SOx emissions and a prohibition against the use of open-loop scrubbers (section 14b);
 - 2.3. stricter requirements for NOx emissions (section 14c);
 - 2.4. a requirement to carry an environmental instruction, specifically developed and implemented for operations in the World Heritage fjords (section 14d); and
 - 2.5. a prohibition against incineration of waste on board ships in the World Heritage fjords (section 14e).
3. According to new section 14d of the Environmental Safety Regulations, ships of 10,000 gross tonnage and upwards operating in the World Heritage fjords must carry an environmental instruction that specifically describes the measures to ensure compliance with the requirements for operations in the World Heritage fjords.
4. The environmental instruction should identify and specify actions to be performed by the shipping company or the ship management to ensure environmentally friendly operation. This involves technical and operational measures and crew awareness training.
5. Verification of the status of technical systems and documentation of specific operational issues and procedures relevant for voyages in the World Heritage fjords are necessary to demonstrate compliance with the requirements for operating in these fjords.
6. The environmental instruction should, at a minimum, cover the issues outlined in attachment I to these guidelines.

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ATTACHMENT I

No.		General check points	
1	<p>Discharge of sewage is prohibited, except when it has been treated in an approved sewage treatment plant certified by the Administration to meet the requirements of MARPOL Reg. IV/9.1.1. The effluent shall not produce visible floating solids nor cause discolouration of the surrounding water.</p> <p>The environmental instruction should clearly state how the ship will handle sewage in the World Heritage fjords.</p>	<p>Log books Discharge observations Maintenance log</p>	
2	<p>Discharge of grey water is prohibited, except when it has been treated in an approved sewage treatment plant certified by the Administration to meet the requirements of MARPOL Reg. IV/9.1.1. The effluent shall not produce visible floating solids nor cause discolouration of the surrounding water.</p> <p>The environmental instruction should clearly state how the ship will handle grey water in the World Heritage fjords</p>	<p>Log books Discharge observations</p>	
3	<p>Ships in the World Heritage fjords must use fuel with a low sulphur content, an approved closed-loop exhaust gas cleaning system or an approved hybrid exhaust gas cleaning system in closed-loop mode.</p> <p>If using an exhaust gas cleaning system, ships must also use a device for reducing visible emissions to air.</p> <p>The environmental instruction should clearly state the type of fuel the ship will use in the fjords and, if a closed-loop scrubber is used, specify the device used to remove visible smoke.</p>	<p>Sulphur content checked on board Log books Bunker delivery note</p>	
4	<p>NOx reduction requirements.</p> <ul style="list-style-type: none"> • Tier II requirements must be satisfied within 1 January 2022. • Tier III requirements must be satisfied within 1 January 2025. <p>NOx technical files and the Engine International Air Pollution Prevention (EIAPP) Certificate or alternative documentation, cf. Circular RSV 5-2024 V Guidance on documentation that the NOx requirements in the world heritage fjords are met, must be available for inspection.</p> <p>The environmental instruction should identify the level of NOx emissions</p>	<p>Technical files EIAPP certificate or alternative documentation of NOx emissions</p>	
5	<p>Incineration of waste is prohibited.</p> <p>The environmental instruction should describe the extent to which the ship complies with this requirement.</p>	<p>Log books</p>	
6	<p>The number of generators running and the load on each generator significantly impact emission levels.</p> <p>The environmental instruction should identify the number of generators that will be running, and the recommended load on each generator.</p>	<p>Log books Ship Energy Efficiency Management Plan (SEEMP)</p>	
7	<p>Mooring, anchoring or dynamic positioning (DP).</p>	<p>Procedures Log books</p>	



	The environmental instruction should describe the preferred method, the environmental impact of each of the alternatives, and the emission-reducing action to be implemented.		
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8	<p>Speed in the World Heritage fjords affects emissions.</p> <p>The environmental instruction should identify the optimal speed considering emission levels and also take into account the waves produced by the ship. The safety of the ship must not be compromised during manoeuvring.</p>	<p>AIS Log books</p>	
9	<p>To ensure that onboard personnel are acquainted with the regulations specific to operations in the World Heritage fjords, training requirements have been included in the Regulations.</p> <p>The environmental instruction should describe the awareness training program for selected crew and staff members. Key personnel should, at a minimum, undergo such training before the ships enters World Heritage fjords. Training should be logged and evidence provided at an inspection.</p>	<p>Familiarisation logs or similar.</p>	
10	<p>Smoke has been a concern in the World Heritage fjords in recent years. Visible smoke consists of exhaust gases, particulate matter and water vapour and should be kept to a minimum.</p> <p>While most of the ships visiting the World Heritage fjords produce very little smoke when arriving, manoeuvring or leaving the fjords, others produce heavy clouds hanging over the fjords. This is unacceptable.</p> <p>The environmental instruction should describe technical and operational measures implemented to keep visible smoke to a minimum. Visible smoke density above what the NMA considers acceptable will have consequences for the shipowner/ship.</p>	<p>Pictures Log books</p>	
11	<p>When the ship is at anchor or using dynamic positioning, the use of tenders may have an impact on the environment in terms of noise pollution and/or emissions.</p> <p>The environmental instruction should describe if and how the tenders will be operated in order to reduce the environmental footprint of these means as much as possible.</p>	<p>Maintenance log Operational instruction</p>	