INTERNATIONAL MARITIME ORGANIZATION

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Agenda item 4

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PREVENTION OF AIR POLLUTION FROM SHIPS

Tanker Energy Efficiency Management Plan (TEEMP)

Submitted by INTERTANKO

SUMMARY

Executive summary:	This document provides the Committee with information relating to the completion of a guidance document for oil and chemcial tanker operators on the implementation of the Ship Energy Efficiency Management Plan (SEEMP)
Strategic direction:	7.3
High-level action:	7.3.1
Planned output:	7.3.1.3
Action to be taken:	Paragraph 8
Related document:	MEPC 60/4/9

Introduction

1 This document is submitted in accordance with paragraph 4.10.5 of the Guidelines on the organization and method of work of the Maritime Safety Committee and the Marine Environment Protection Committee and their subsidiary bodies (MSC-MEPC.1/Circ.2) and provides comments on, and additional information related to, document MEPC 60/4/9 by the Secretariat.

2 The Secretariat's summary of the United Nations Climate Conference 2009 in document MEPC 60/4/9 draws attention to the industry's continued support for IMO's work on control of GHG emissions as well as the operators' continued drive for more energy efficient ships. In this respect INTERTANKO's members continue to improve on energy efficiency within the tanker fleet. By way of a demonstration of the industry's work on GHG issues and its support for the developments within IMO, INTERTANKO submits this document relaing to the use of the Ship Energy Efficiency Management Plan (SEEMP) within the tanker sector.

3 INTERTANKO's Guide for a Tanker Energy Efficiency Management Plan (TEEMP) is a practical tool for use by operators seeking to enhance energy efficiency and improve emissions performance within their tanker fleet. It provides a basis for tanker operators to implement a Ship Energy Efficiency Management Plan as recommended by Guidance for the development of a Ship Energy Efficiency Management Plan (MEPC.1/Circ.683), as agreed by the Committee at its last session. The final part of IMO's Guidance provides a list of possible fuel and energy efficiency measures that may be considered by operators looking to implement a SEEMP. This is a vital part of the Guidance. INTERTANKO's Guide builds on this part of the SEEMP and specifically details what tanker operators may be able to implement to enhance the energy efficiency of vessels they operate.

4 The Guide provides a template for developing a Company Energy Efficiency Management Plan and goes into detail regarding the measures that may be implemented on board to improve energy efficiency within a tanker fleet.

5 The energy efficiency measures identified in the Guide are based on experience gained from members of INTERTANKO's Safety, Technical and Environmental Committee (ISTEC) and its Environmental Committee. This experience reflects actual onboard implementation of the efficiency measures on existing tankers and is gleaned from operators representing a broad spectrum of tanker types and sizes. While the measures introduced and explained in this Guide have been developed specifically for application on oil and chemical tankers, it is recognized that vessels other than tankers may successfully make use of the measures. Furthermore, it is acknowledged that the measures identified will have varying degree of success, once tanker type, design parameters and method of operation are taken into account. These variables and differences have, where applicable, been noted in the Guide with specific reference provided as to the optimal vessel type and operation for each measure.

6 The following main areas of energy efficiency are identified within the Guide:

.1 Programme for Measuring and Monitoring Ship Efficiency;

.2 Voyage Optimisation Programme;

.1 Speed selection optimisation;

.2 Optimised route planning;

.3 Trim Optimisation;

.3 Propulsion Resistance Management Programme;

.1 Hull Resistance;

.2 Propeller Resistance;

.4 Machinery Optimisation Programme;

.1 Main Engine monitoring and optimisation;

.2 Optimisation of lubrication as well as other machinery and equipment;

.5 Cargo Handling Optimisation;

.1 Cargo vapours control procedure on all crude tankers;

.2 Cargo temperature control optimization;

.6 Energy Conservation Awareness Plan;

.1 On board and on shore training and familiarisation of company's efficiency programme; and

.2. Accommodation-specific energy conservation programme.

7 Further information about the Guide is available on INTERTANKO's website:

https://www.intertanko.com/shopping/ShowItem.aspx?id=47572.

Action requested of the Committee

8 The Committee is invited to note the information provided in this document and take action as appropriate.