The Influence of Environmental Legislation — To What extent is the Efficiency of Ship Operation influenced by Politics?

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The Maritime Environment

- This Presentation presents some of my personal views relating to the current Regulations and the Protection of the Maritime Environment
- The Maritime Environment is a large expanse of water which we know relatively little about.
- Has been used as a prime dumping ground for Public waste but needs Protection.

International Maritime Environmental Legislation

- A Brief Overview:
 - Marine Pollution Regulations (MARPOL)
 - ► MARPOL Annex I Oil Pollution
 - MARPOL Annex II Noxious Liquid Sub. Pollution
 - MARPOL Annex III Package Harmful Sub.
 - MARPOL Annex IV Sewage Pollution
 - MARPOL Annex V Garbage Pollution
 - MARPOL Annex VI Air Pollution
 - Oil Pollution Response Convention
 - Anti-Fouling Convention
 - Ballast Water Convention

The Legislation and Politics!!

- What is Politics? A Judicial Expression of the Will or Requirements of the People
- How is INTERNATIONAL Legislation or Regulation created?
 - Addresses the specific issue
 - Consensus approach addressing differing agendas
- Is thought given to the full scope of the Regulation and consequential "side effects"?
- Holistic implications correct one aspect but impact another!!

The Needs for International Regulations

- International Regulation needs to address:
 - Meet Long Term Goals for the environment
 - Achievable and consistent to allow for planning
 - Maintain a "level playing field" for all ships
 - Brought into force promptly by all States
 - Properly enforced by all as per the Rules
- Regional Regulations are to be avoided
 - They create many operational and planning difficulties and uncertainties

Regulations and their impact on Tanker Operations

• INTERNATIONAL REGULATIONS

- Anti-fouling Regulations
- Ballast Water Regulations
- Air Pollution Regulations
- Oil Pollution Regulations

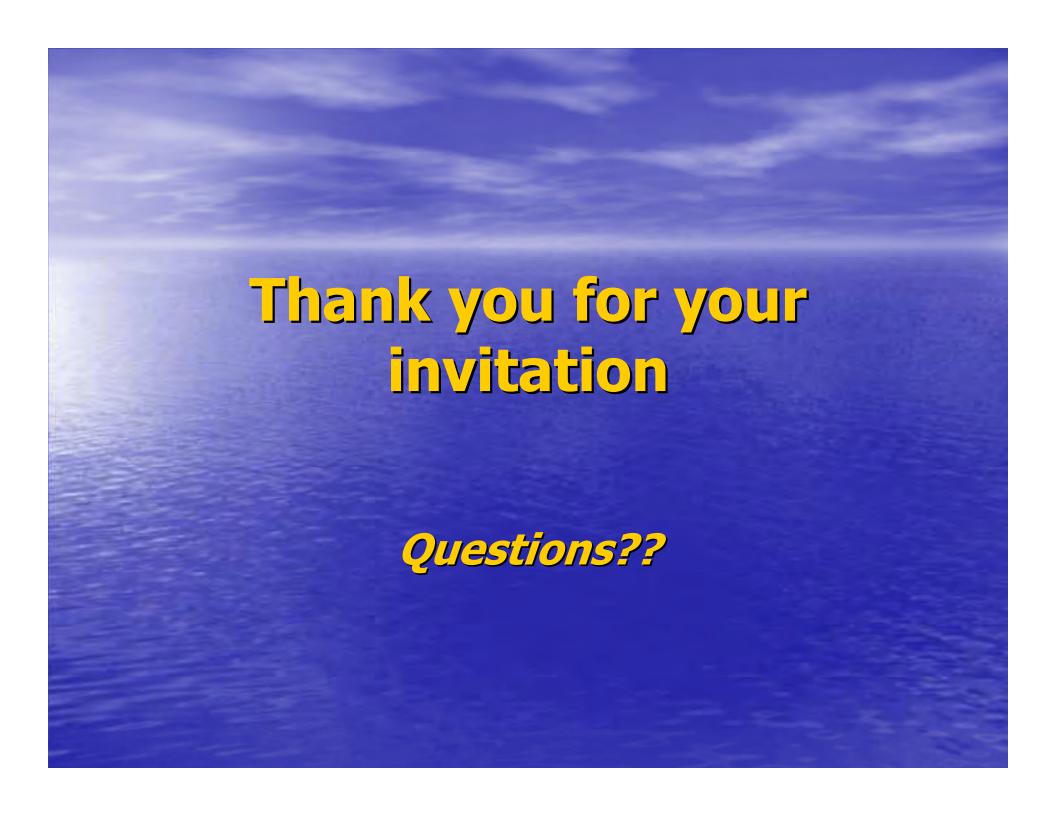
Which of these Regulations does not impact CO2 emissions??

Impact of Regional Regulations

- The EU Sulphur Directive
 - Additional fuels required
 - Availability of these fuels worldwide
- The Proposed US Federal Regulations and California
- Other potential or future Regional requirements

Additional Future Requirements

- Global Warming
 - CO2 emissions
 - GHG Emissions as a whole
- Re-Cycling of Ships



SHIP EFFICIENCY







