

Germanischer Lloyd

Environmental Passport - Operation

- a certified emission inventory -

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Environmental Passport – Operation

Market requirements

- Carriers request emission reporting for transported cargo
- Global players like DHL, ABX,
 IKEA, ... demand emission data for their sustainability reports and/or require environmental standards (e.g., CCWG, CSI, ...)
- Evidence of "green" operation needed to stay competitive on charter market
- Ports differentiate port fees based on environmental performance of ships (ESI)

Shipping companies' needs

- Emissions to be derived from standard operational data (e.g., log book, noon reports)
- Qualified reporting requires independent verification of data
- Emission reports required for environmental standards
 (e.g., CCWG, ESI, CSI)



Environmental Passport – Operation



explanation and benefits

- GL's Environmental Passport Operation is a certified emission inventory
- it covers ship's emissions during normal operation ¹⁾
- it considers emissions into air, into sea and to shore actually addressed are emissions in MARPOL and other Conventions (e.g. BWM)
 - emissions into air are calculated based on fuel consumed as listed in noon reports
- Emissions are compiled in an emission inventory on annual basis
- Emission data are verified and certified by GL (comprises emission reports and certificates)

additional benefits:

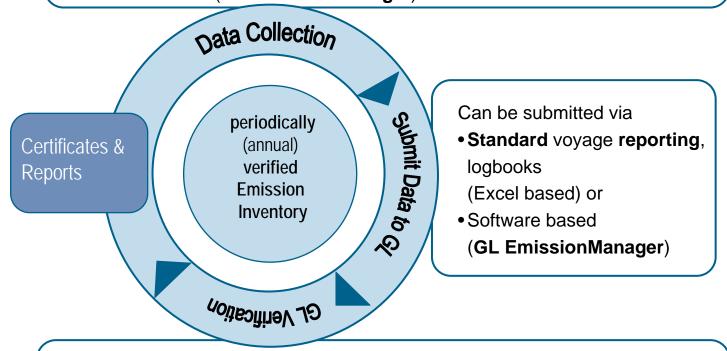
- Certified data set for ESI, CCWG, CSI
- fulfills reporting requirements by SEEMP (or ISO 50.001)
- the service can be used for whole fleet (independent of class)

1) no accidental discharges



EP-Operation is built around a periodical certification cycle

- Based on standard operational data
- Does not require additional measurement systems *
- Data collection either via standard voyage reporting (log-abstracts, Excel based) or software based (GL EmissionManager)



- Completeness and plausibility checks
- Quality of data gathering process (check at client's office, sample data check)



Guidelines for the Environmental Service System



http://www.gl-group.com/infoServices/rules/pdfs/gl_vi-12-1_e.pd

GL Environmental Passport Services aim at reducing the environmental impact of ships beyond mandatory requirements

- "Environmental Passport Design" addresses technical requirements assessing characteristics of environmental relevance of ship design and ship equipment.
- 2. Environmental Passport Operation addresses operational emissions:
 - into the air:
 CO₂, NO_x, SO_x, ODS
 - into the sea:
 Oil, garbage, BW

 (including distinction to shore for sludge and garbage)



No. 5

Advice for possible MRV-plans

issues to be considered

Monitoring:

should be built on consumed fuel (today)

Reporting:

 an electronic data format must be well planed / considered integrity, server abilities, access, confidential data,...

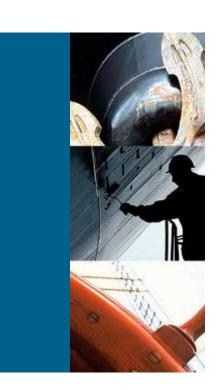
Verification:

- should make use of existent common practice (RO's)
- verification should be once per year
 - verification can be done by checking BDN and office standards









Thank you for your kind attention.

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