Study and analysis of passage planning principles.
Voyage planning and monitoring from Sakai to Point Fortin

Passage planning

1. Appraisal
Collect and assess all relevant information for the passage

2. Planning
Develop and approve a voyage plan

3. Execution
Brief voyage plan to Bridge Team and navigate following it

4. Monitoring
Check the progress of passage

Safe and comprehensive navigation plan berth to berth:
- Risk assessment
- Evaluates sea space and depths
- Defines proper position fixing
- Reporting requirements and routing measures
- Expected traffic and weather conditions
- Compliance with environmental protection measures

HIGH TRAFFIC FISHING AREAS · BUSY STRAITS · OPL OPERATION · TROPICAL CYCLON

Voyage performance assessment

- 30% IMO GOAL for LNGc:
  Optimisation: trim, speed, use of rudder, use of engine, NBOG management, heating, cooling and lightning

2025

ENVIRONMENTAL COST
Voyage emissions = 12,400 t CO₂
EEOI = 31 g CO₂ / t · nm

ECONOMICAL COST
Voyage cost = 5.43 M$
Consumption = 108.9 t / day

Judit Carreras Ruiz