2020: The Ships’ Engineers Perspective

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Ship Implementation Plan:
• Review of existing arrangements and equipment
• 2020 fuel oil specifications and limitations
• Undertaking required modifications / changes
• Implementation of 2020 Change-over Plan

Re-focusing existing knowledge and expertise to the perspective of 2020
Bunker Tank Management:
Bunker capacity – set by available empty tanks
Bunker stem segregation
Compatibility ‘Spot Testing’
Bulking remaining quantities of previous stems
Minimum tank temperatures maintained
Bunkering: Residual & ‘Distillate’ Grades
Supplied ‘as ordered’ ? + BDN, MARPOL Sample
Any specific information provided

Oversight of bunkering operation
Sampling fuel oils as received
Fuel oil management on receipt

FONAR, mitigation and re-establishing compliance
Fuel Oil Management:
Settling & service tanks
Treatment
Purification
Filtration
Temperature control
Injection
Engine performance
Fuel switching – ECA
Fuel leakage
Drain line choking
Resolving problems
Exhaust Gas Cleaning Systems: Residual fuels unchanged?
Operation & maintenance
Monitoring devices
Record keeping
Failure management
Port State Control:
0.50% max S aware - BDN
Sampling fuel oil in use
Sampling fuel oil on board
MARPOL Delivered Sample

EGCS certification & use
Monitoring and records:
Emissions to air
Emissions to sea
2020 Engineer’s Tool Kit:
Re-focused knowledge and expertise
Provision of the ‘tools’ to do the job
Opportunities to use those ‘tools’
2020 - Plain Sailing ?

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