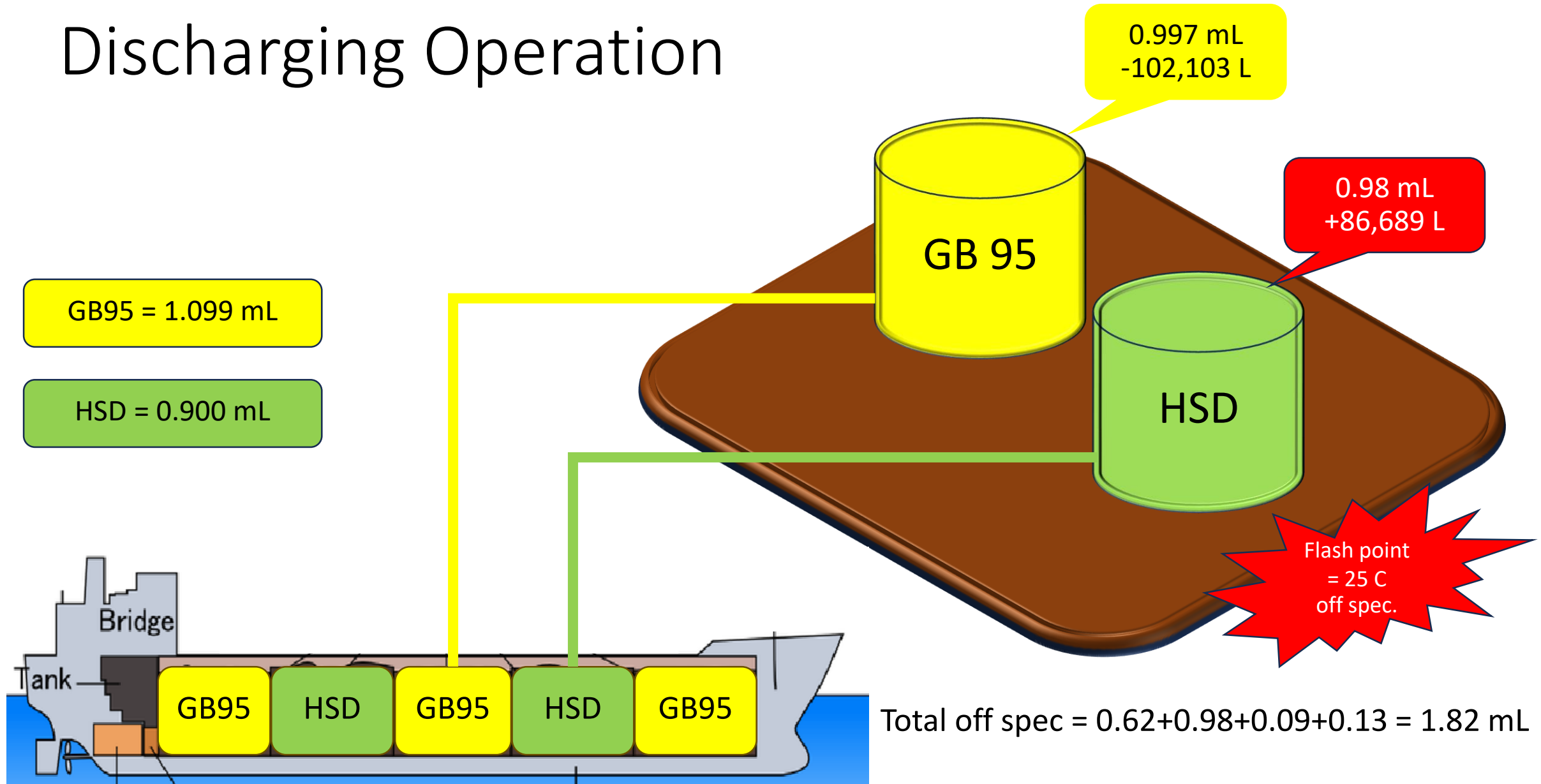




Cargo Contamination

Ship owner meeting, IESG
25 September 2023

Discharging Operation



ประกาศกรมธุรกิจพลังงาน

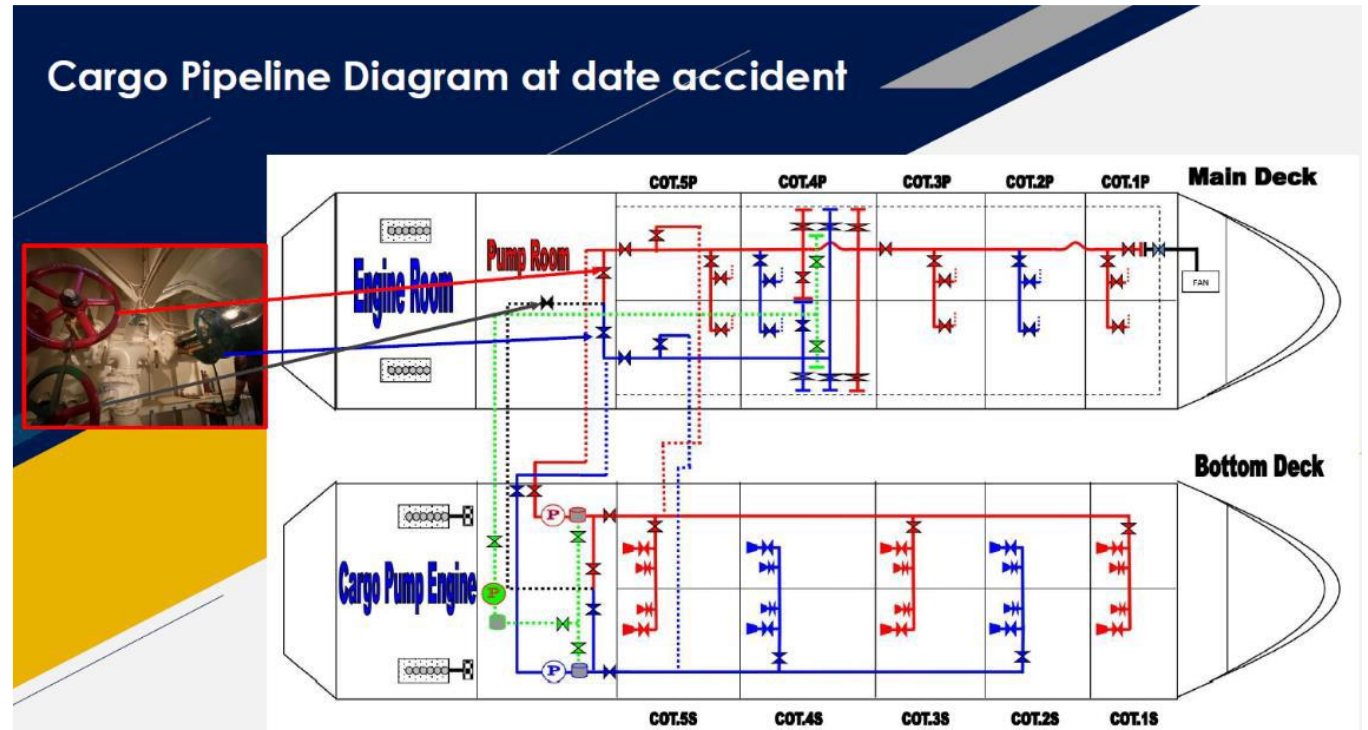
เรื่อง กำหนดลักษณะและคุณภาพของน้ำมันดีเซล

พ.ศ. ๒๕๕๖

รายการ	ข้อกำหนด	อัตราสูงต่ำ	น้ำมันดีเซล		วิธีทดสอบ ^{๑/}
			หมุนเร็ว	หมุนช้า	
๑๑	จุดวาบไฟ (Flash Point, องศาเซลเซียส °C)	ไม่ต่ำกว่า	๕๒	๕๒	ASTM D ๙๓

Investigation

- Slightly open of 2 cross section valves
 - On Deck
 - Pump Room Deck Level
 - Pump Room Lower Deck
- Immediately leave of Chief Officer
 - Second Officer acting as C/O



Root Causes

Lines and Valves management

- Unclear of lines and valves setting including re-confirm procedure
- Unfamiliar of cargo operation

Crew management

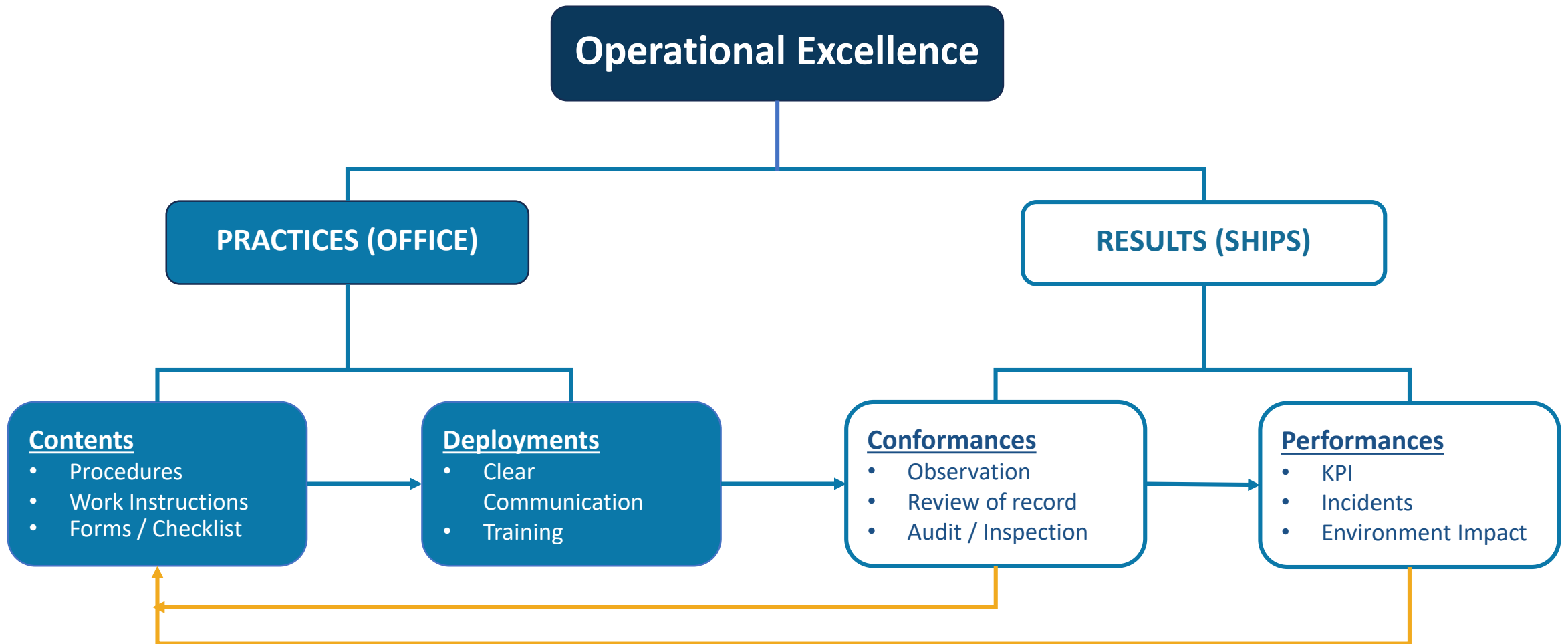
- No procedure of immediately leave of senior officers
- Not effective of promotion and handover procedure

How to Handle the HSD

- Re-process by Oil Refinery
- Sell as degrade HSD
- Dilution < 5%
- Destroy
- Claim.....



Operational Excellence



Cargo Operation Manual

- Load/Discharge 1 product
- Load/Discharge 2 products and upward
- Pipeline and valve management
 - Isolation of Crossover Lines
 - Valve setting
 - Verification of line and valve setting prior to the start of operations (Form/Checklist)
- Approved by authorized person





**EMPOWERING ALL TOWARD
INCLUSIVE GROWTH**

OR เติบโตโอกาส เพื่อทุกคนเติบโต ร่วมกัน

*Harnessing OR
competencies to support,
fulfill, and elevate*

*Sustainable growth
with Living Community,
Healthy Environment, and
Economic Prosperity*

*Moving forward with
strong determination and
leaving no one behind*

*6 groups of
OR stakeholders*