

# Liquefied Gas Carrier NCOE



NEDC Ports & Goods Movement Work Group

LNG Bunkering

27 September 2014

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# Objectives

- NCOE Overview
- Current Regulations
  - Domestic
  - International
- Policy



# NCOE Overview

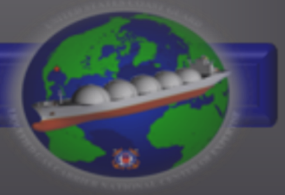


USCG LIQUEFIED GAS CARRIER NATIONAL CENTER OF EXPERTISE

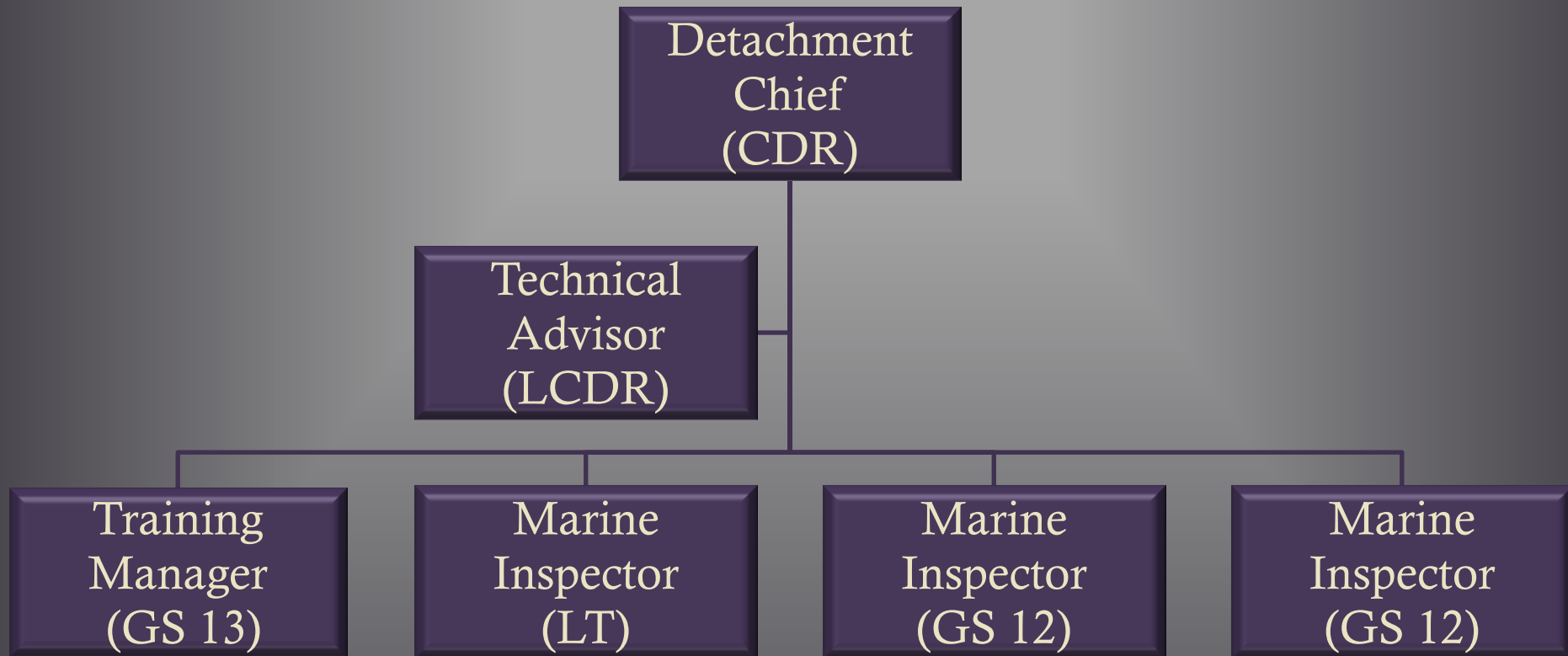


# NCOE Overview

- Provides consultation & technical advice to both the Marine Industry and the Coast Guard on matters concerning Liquefied Gas Carriers.
- Assist with foreign gas vessel examinations as a specialized force multiplier.
- Training opportunities: Coordinate LNG Ship Rider Program, Gas Carrier Inspector Course, on-the-job training & exportable training.



# NCOE Overview



# NCOE Overview

## ➤ WEBSITE:

- [www.uscg.mil/lgcncoe](http://www.uscg.mil/lgcncoe)

## ➤ STAFF

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- VACANT – Senior Marine Inspector, Gas Carrier SME



# NCOE Overview

Transportation



Condensate Removal

CO<sub>2</sub> Removal

Treatment

Dehydration

Mercury & H<sub>2</sub>S Removal



Liquefaction



Storage



Transportation



Use



# Current Regulations

## *DOMESTIC*

- 33 CFR 127 - Qualification of Personnel Conducting Transfer
- 46 CFR 154 - Vessel Design, Construction, Equipment, Tests & Operations
- 33 CFR 156 – Oil & Hazardous Materials Transfer Operations
- 46 CFR 38 - Liquefied Flammable Gases





# Current Regulations/Guidance

## *INTERNATIONAL*

- IMO Resolution MSC.285 (86): Interim Guidelines on Safety for Natural Gas Fueled Engine Installation in Ships (IGF)
- Ship to Ship Transfer Guide (SIGTTO/OCIMF)
- International Gas Carrier Code



# Policy

➤ ***CG-521 (ENG) Policy Letter***

01-12 (Equivalency Determination-Design Criteria for Natural Gas Fuel Systems)

➤ ***CG-OES Policy Letters***

01-14 (Guidelines for LNG Fuel Transfer Operations and Training of Personnel on Vessels Using Natural Gas as Fuel)

02-14 (Guidance Related to Vessels and Waterfront Facilities Conducting LNG Marine Fuel Transfer Operations)



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# Policy

- CG-OES Policy Letter 01-14 /02-14
  - Transfer Operations Manual
  - Emergency Manual
  - Training
  - Drills
  - Transfer Procedures
  - LNG Transfer Hoses/Connections
  - Shut Downs

