

Federal Safety And Security Requirements; Offshore LNG Terminals

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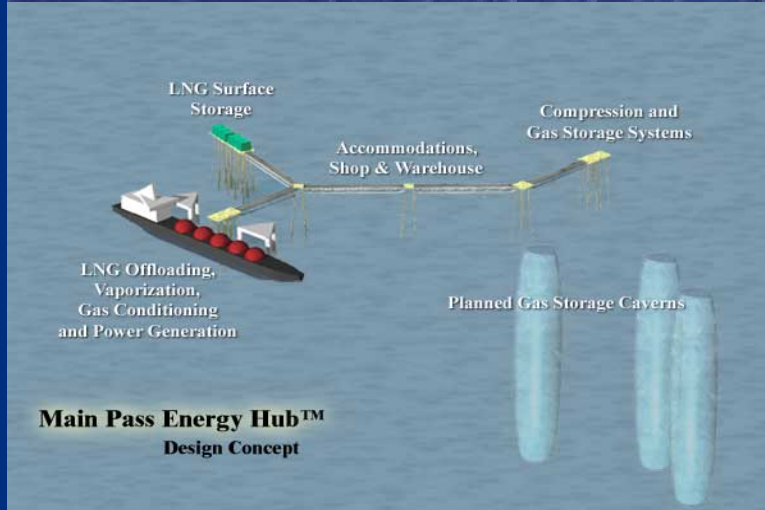
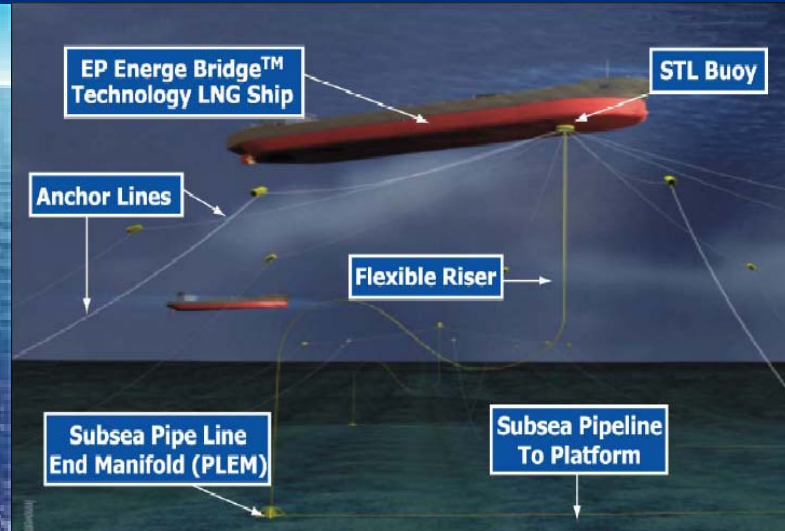
<http://www.uscg.mil/hq/g-m/mso/mso5.htm>



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Variety of Offshore LNG Facilities



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Federal Safety and Security Regulatory Framework

- 33 CFR Subchapter NN: Deepwater Ports
- Navigation and Vessel Inspection Circular (NVIC) 03-05: “Guidance for Oversight of Post-Licensing Activities Associated With Development of Deepwater Ports”

Based on -

- Deepwater Port Act of 1974
- Deepwater Port Modernization Act of 1996
- Maritime Transportation Security Act (MTSA) of 2002

Result -

- Regulatory flexibility to ensure safety, security, and environmental protection
- Recognition of industry standards and practices



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Subchapter NN – Deepwater Ports

- Part 148 – General
 - License application requirements
 - Environmental review criteria
- Part 149 – Design, Construction, and Equipment
 - Pollution prevention
 - Lifesaving equipment
 - Firefighting equipment
 - General design of structure and major systems



Subchapter NN – Part 150

Operations Manual

- Design codes
- Tanker navigation procedures
- Personnel standards
- Cargo transfer procedures
- Maintenance procedures
- Occupational health and safety training
- Emergency procedures
- Security procedures – comparable to 33 CFR 106.



Deepwater Ports Security

- Risk assessment for EIS
- Safety Zone and Area to be Avoided
- 96 hour advance notice of arrival
- Operations Manual - USCG-approved with participation of local USCG sector
- Port-specific security plan comparable to MTSA 2002 requirements for offshore facilities (33 CFR 106) - facility security assessment, facility security plan, and related training and drills



Deepwater Ports Security

- **Risk assessment for EIS**
 - Site specific case-by-case analysis
 - Meteorological and oceans data & Existing vessel traffic
 - Incorporate threat intelligence
 - Consider all credible accidental and intentional incidents
 - Evaluate consequences of a worst case credible incident
- **Reduce chances of incident**
 - Analyze threats
 - Develop defenses
 - Training, drills, maintenance, testing



Post-License Activities

- Design, construction, and installation requires USCG approval
- Optional program - NVIC 03-05 supplements Subchapter NN
- Third-party certification during of DWP design, fabrication, installation, and periodic maintenance with USCG oversight
- MMS, FERC, PHMSA-OPS, and USCG have similar programs
- Concept familiar to industry
- Recognizes and takes advantage of industry experts and existing design standards



Thank you



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