LNG Operations

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Facilities Engineering Seminar 2019



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Objectives

1) Have a thorough understanding of Sector Jacksonville's various LNG operations

2) Understand what the initial process looks like for establishing new LNG facilities in your AOR

3) Become familiar with the resources and guidance to assist you during this process



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Initial Steps

• Receive Letter of Intent (LOI)

• Owner/operator submits LOI to COTP NLT date that a prefiling request with Federal Energy Regulatory Commission (18 CFR parts 153 and 157) is submitted, but at least 1 yr. prior to the start of construction

- Items that LOI must include for submission are located in 33 CFR 127.007 (c)
- Owner/operator who submits an LOI must notify the COTP in writing within 15 days of any of the following:
 - Any change of information submitted
 - If there aren't LNG transfer operations are scheduled within the next 12 months



Waterway Suitability Assessment (WSA)

- The owner/operator must file a preliminary WSA with the LOI.
 - The WSA must be updated, as appropriate, with the COTP for the zone in which the facility will be located.
- WSA is a two-fold process consisting of a Preliminary WSA and a Follow-On WSA.
 - WSA requirements for submission can be found in 33 CFR 127.007 (f) & (g)
 - Until the facility begins operations, owner/operator must annually review the WSAs and submit a report to the COTP detailing findings.
 - Submit a final report to COTP at least 30 days, but not more than 60 days, prior to the start of transfer operations.



Letter of Recommendation (LOR)

- After COTP receives the LOI, COTP issues a LOR as to the suitability of the waterway for LNG marine traffic
- Owner/operator or a state, local, or tribal government in the vicinity of the facility, may request reconsideration from the LOR (33 CFR 127.010)



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LNG-Tote

• Marlin Class Vessels

Homeland

Security

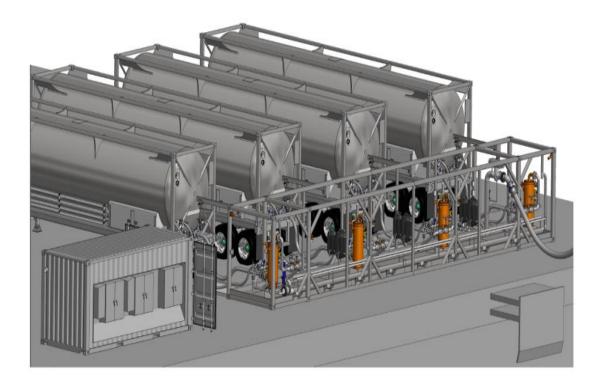
- M/V PERLA DEL CARIBE fully operational
- M/V ISLA BELLA fully operational
- Intermodal Bunkering Facility (IBF)
 - Utilized "as needed"
 - > Trucks → ship transfers
 - Contingency operations for the barge, CLEAN JACKSONVILLE



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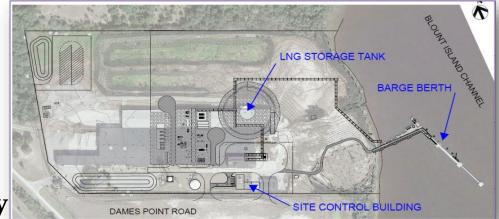






LNG-Pivotal/Jax LNG

- Pipeline → liquefaction → CLEAN JACKSONVILLE barge & trucks
 - Produces 120,000 gallons of LNG/day
 - 2M gallon storage capacity
- <u>https://www.youtube.com/wat</u> <u>ch?v=1u6X-</u> <u>Puc4DM&spfreload=10</u>







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LNG-CLEAN JACKSONVILLE

Pivotal/Jax LNG — CLEAN JACKSONVILLE — Tote vessels





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LNG-Crowley

- Commitment Class Vessels
 - M/V COQUI
 - Delivered to Jacksonville in June 2018
 - ➤ Currently operates Jacksonville → San Juan
 - <u>https://www.youtube.com/watch?</u> <u>v=rLJNN-rBWao&spfreload=10</u>
 - M/V TAINO
 - Delivered to Jacksonville in January 2019
 - ➤ Currently operates Jacksonville → San Juan
 - https://www.youtube.com/watch? v=biy7sPPTQes&spfreload=10







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LNG-Eagle

- Maxville Liquefaction Facility (West Jacksonville)
 - Not a designated waterfront facility, therefore not inspected under CG regulations
 - Supplies Eagle LNG/Talleyrand facility via trucks
 - Fully operational

Homeland

Security

- Produces 200K gallons of LNG/day
- > 1M gallon storage capacity



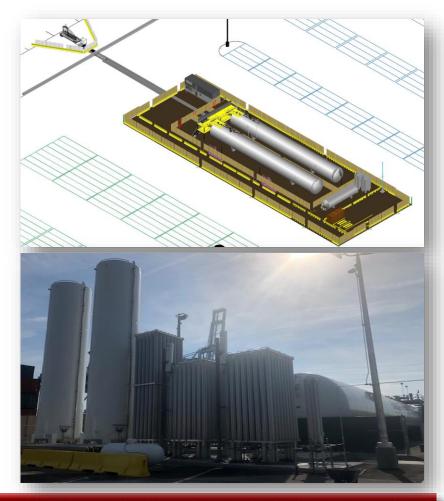
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LNG-Eagle

- Talleyrand Marine Terminal
 - Trucks → storage → vessel bunkering
 - Bunkers M/V COQUI & M/V TAINO (Crowley)
 - 2 LNG storage tanks w/250K gallons of LNG each
 - Pumps 900 gallons of LNG per minute w/max of 2400 gallons of LNG per minute
- <u>https://www.youtube.com/watch?v=fd</u> <u>79A3sZYCw&spfreload=10</u>





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Future LNG Facilities

- Eagle LNG Export Facility
 - Planning/development ongoing
 - FEIS received from FERC
 - 8M gallon tank
 - Barge (3K m³)
 - Small carriers (5-30K m³)

<u>https://www.youtube.com/watch?v=g</u> <u>VnIjWgs4Zk&spfreload=10</u>







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Guidance

- 33 CFR Parts 127, 155, and 156
- Title 46 CFR Subchapter D
- Marine Safety Manual Volume II
- COMDT (CG-521) Policy Letter 01-12 (April 19, 2012)
- COMDT (CG-OES) Policy Letter 01-15 (February 19, 2015)
- COMDT (CG-OES) Policy Letter 02-15 (February 19, 2015)
- LNG Bunkering Facility Inspection Job-Aid



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Questions?



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USCG Sector Jacksonville

United States Coast Guard

