



National Harbor Safety Committee Conference Portland, Oregon

Alternative Fuels & Maritime Transportation



Jacksonville Port Authority

JAXPORT

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JAXPORT

- International trade seaport in Southeast U.S.
- Three cargo facilities, plus cruise terminal
- Top Florida container port complex
- One of the largest vehicle handling ports in U.S.
- Worldwide cargo services
- Designated Strategic Port

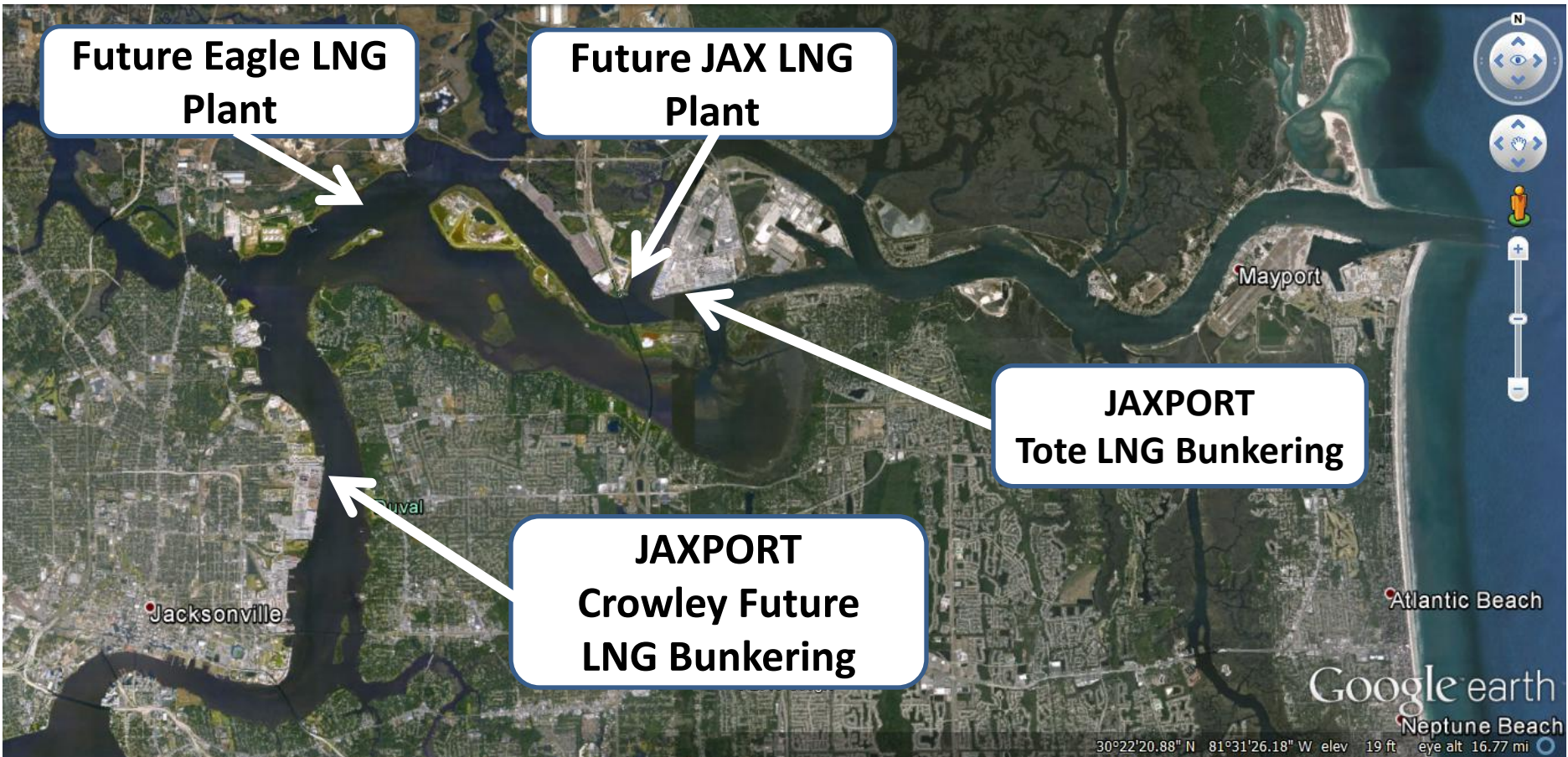


JAXPORT “Embracing Safe LNG”

- Recognize significant capital investment on the part of our customers
- Commitment of land/services to accomplish both temporary and long-term LNG bunkering from shore-side to vessel
- Encourage and assist liquefaction plant development in local market to ensure availability and continuity of supply
- Understanding the risk, and working in partnership to mitigate
- Public and elected official outreach



JAX Natural Gas Renaissance



JAX LNG

- LNG liquefaction plant and marine berth situated on 37 acre industrial waterfront property on the St. Johns River
- Building a new bunker barge
- Serve TOTE and other marine customers situated in the Jacksonville area
- Actively targeting other markets, including power, trucking and rail
- Anticipated in-service date of Q4 2017



Bunker Barge Route Supporting Tote Vessels





- Flex Membrane
- unloading arm (not shown)
- 2 submerged cryogenic pumps
- Radar tank gauging
- High and high-high level alarms
- Pressure and temperature sensors
- Emergency Shutdown System (ESD) – manual and remote
- Boiloff gas re-liquefiers – 6 cryocoolers



JAXPORT “Best Practices, Lessons Learned & Challenges”

- USCG leadership is critical to overall success
- Engage early, develop and build on partnerships
 - Local, State, Federal (Team Concept)
- Develop and adhere to unified messaging at all levels
- Continuous process of improvement supported by after-action and plan adjustments
- Gas Industry
 - SMEs
 - First Responder Investment



JAXPORT “Best Practices, Lessons Learned & Challenges”

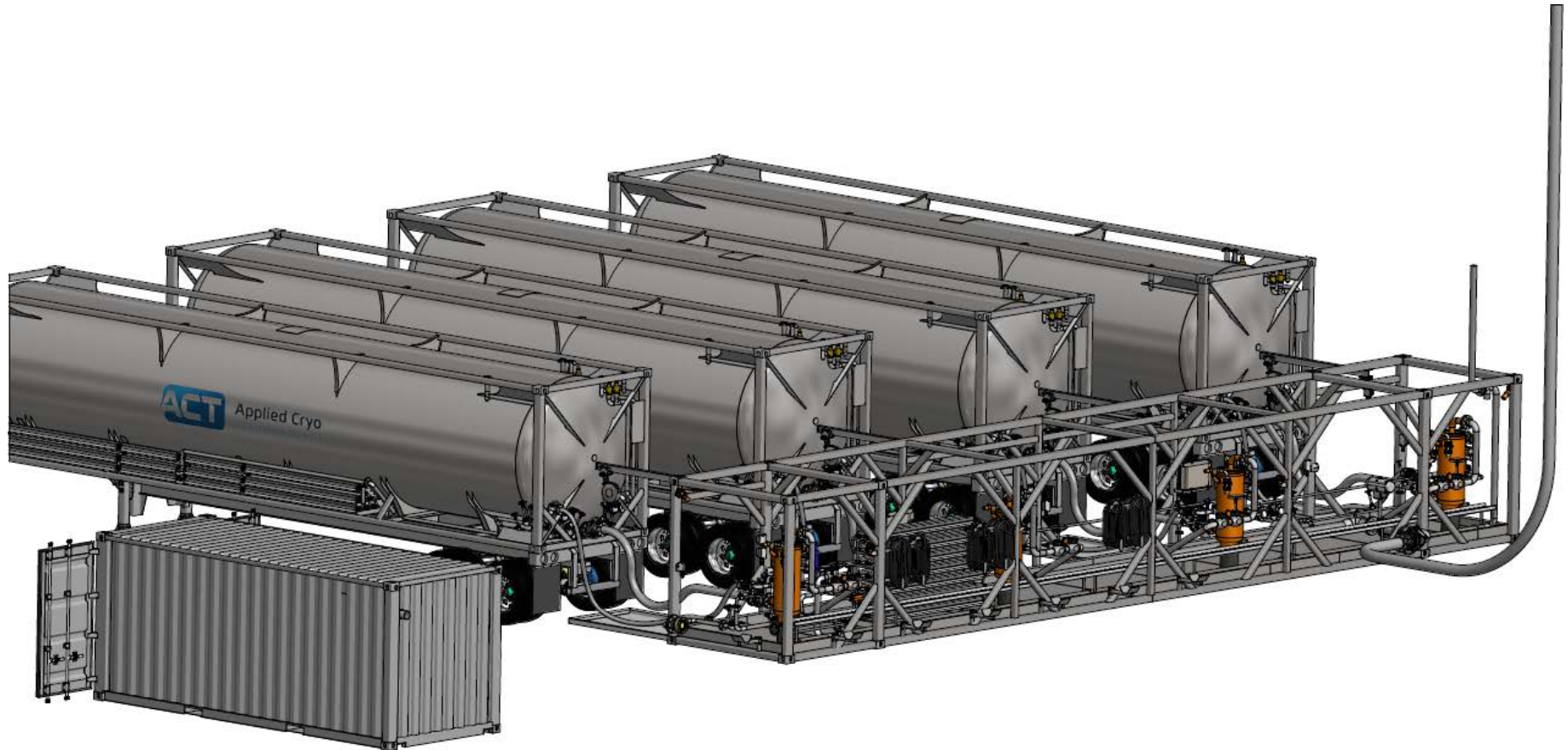
- LNG Policy letter versus big regulations
- Local supply of LNG not yet available in Jacksonville.
 - Requires interim solutions (think out of the box)
 - More complicated when approaching from a mobilize/demobilize perspective due to setup of disparate equipment
- Impact and balance w/other terminal operations
- Ensuring effective communication and training to overcome negative public perception



Tote Vessel Isla Bella



Pivotal LNG Fueling for Tote Maritime



Interim Bunkering Facility



LNG Bunkering Exercise



Safety Zone





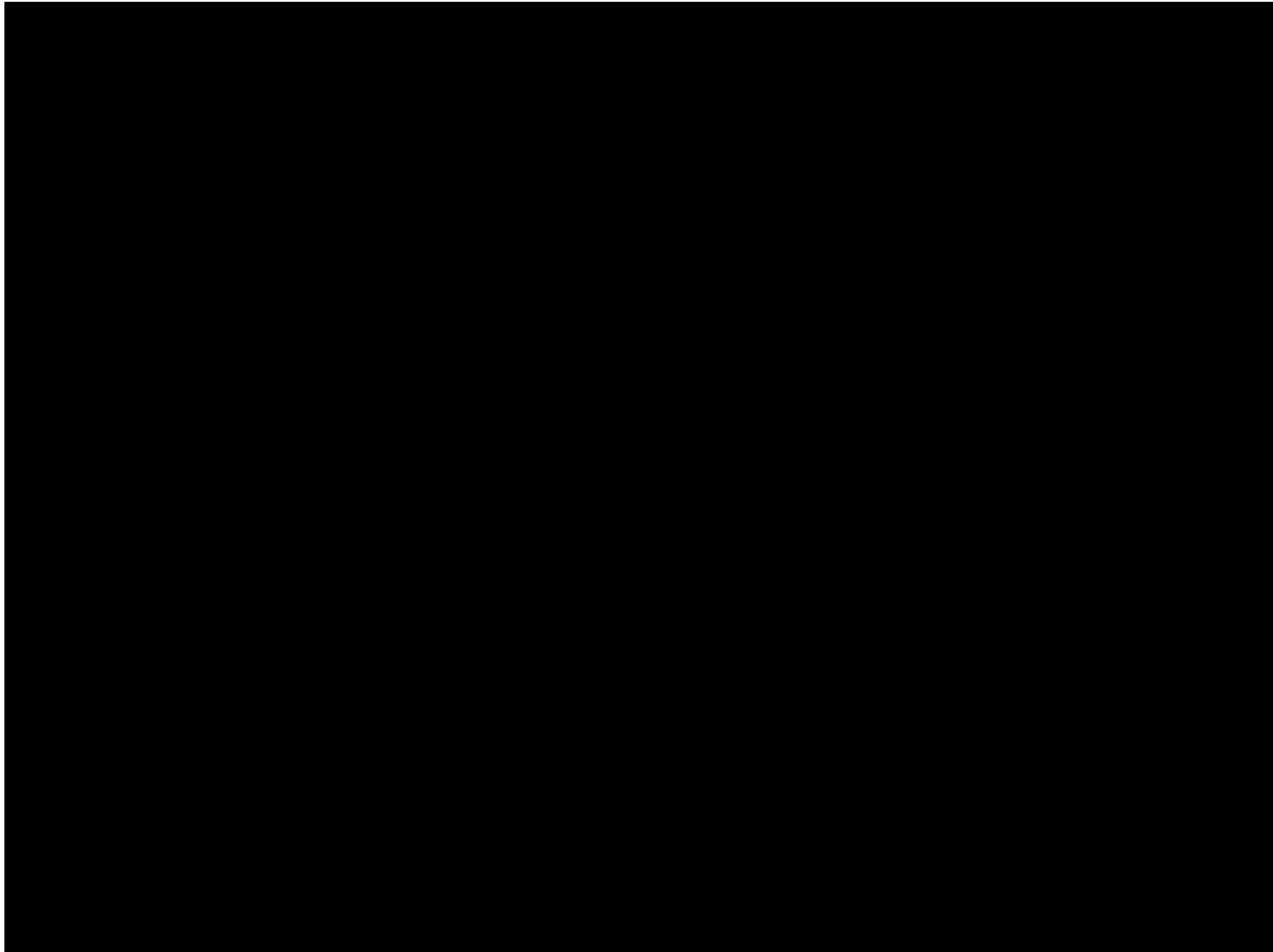
Interim Bunkering Facility W/Truck





Vessel With IBF Test Evaluation





90 Sec Video

