



Waterside Security of Especially Hazardous Cargoes (EHC)



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Office of Port & Facility Compliance

- Oversees for port, facility and cargo safety, security and environmental protection compliance activity
 - MTTA
 - SAFE Port Act
 - TWIC
 - Port and Waterway Safety Act
 - Clean Water Act
- Port recovery/resiliency
- Prevention outreach to interagency and industry
- COTP, OCMI and FMSC



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Domestic Ports Division (CG-FAC-1)

- Domestic port anti-terrorism prevention program
- Maritime Cyber security governance program
- Area Maritime Security Committees (AMSC)
- Port safety, security, recovery and resiliency activities
- National Maritime Security Advisory Committee (NMSAC)
- Sponsor for HOMEPORT
- Maintain security strategy and policy for EHCs
- Program manager for PSS and SS (P/R) personnel



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Especially Hazardous Cargo (EHC)

- 5 cargoes in bulk: Chlorine, Anhydrous Ammonia, Ammonium Nitrate, LPG and LNG
- Congressional mandate in the 2010 Coast Guard Authorization Act (section 812)



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EHC Security Timeline



Workgroup

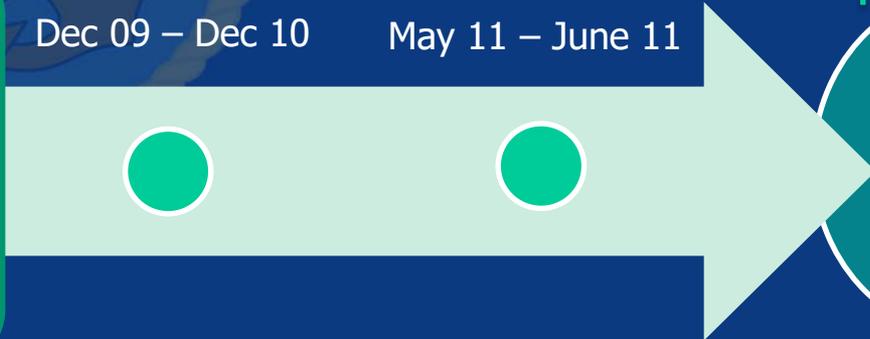
Dec 09 – Dec 10

Listening Sessions

May 11 – June 11

2010 Auth. Act

Cargo Security Symposium
Sep 09



Study
Oct 11

Strategy
Apr 12



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EHC Risk Mitigation Products

- 3 Commodity Flow Studies
- Cargo Security Symposium (Results of the Plenary and Breakout Session Discussions)
- Consequence Ranking of Potential Certain Dangerous Cargo Releases (ABSG)
- Cargo Security Risk Reduction Workgroup
- Public Listening Sessions
- CTAC Security Subcommittee
- AWO EHC security survey
- Plans to socialize through DHS's Chemical SCC



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Advisory Committee and Coordinating Council Championed Implementation

- NMSAC (EHC work group will be established and engaged when needed)
- Chemical transportation SMEs (Chemical Transportation Advisory Committee (CTAC))
- Chemical Sector GCC and SCC



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EHC National Security Study

- Per Auth. Act, National Study shall include:
 - Waterside security risk assessment analysis (MSRAM)
 - Maritime stakeholder roles & responsibilities
 - Recommended measures to improve waterside security
 - Alternative sources of funding for security measures
- National Study Report provided to Congress May 2012



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EHC National Security Strategy

- Purpose
 - Ensure commercially viable transport, transfer, and storage of EHCs, within the nation's MTS, managed at an acceptable level of risk from intentional attack
 - Roadmap to achieve and maintain an acceptable EHC security risk level in an executable manner



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EHC National Security Strategy

- Developed using results of National Study
- Mitigate risk of terrorist attack against the bulk transport, transfer or storage of EHCs
- National Strategy provided to Congress Sep 2015



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EHC National Security Strategy

- Strategic Goals:
 - Awareness/MDA
 - Preparedness/Prevention
 - Response
 - Resiliency/Recovery



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EHC National Security Strategy

- Multi-agency and Industry Effort
- Many Coast Guard, OGA and industry partners will be involved in implementing the strategy. It blends:
 - Technology
 - Intelligence/Information
 - Dynamic risk management to drive resource allocation
 - Prevention capability assessments
 - Potential Consequences and Recovery capability assessments
 - Operations
 - Prevention/protection
 - Response/recovery
 - Training
 - Multi-stakeholder management (public/private)



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Enhancing Maritime Security for EHCs

- Industry engagement
- Federal, State and Local Government engagement
- Implementation Plan
- Charter or other executing document describing planning process and core and adjunct participants charged with drafting an implementation plan



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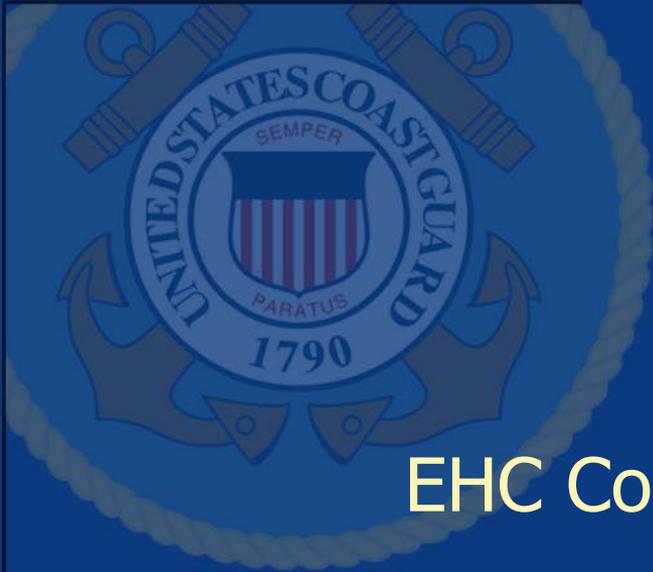
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John Burke
ABS Consulting

EHC Commodity Flow Model 2012-2016



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Commodity Flow Model (CFM)

- First step in implementation process
- ABSG and CG-FAC engaged
- USACE information 2012 through 2016
- Information also gleaned from MISLE, SANS, MSRAM, and industry trade organizations (KPA analysis performed by CG-MSR) (patrols and escorts)
- AWO EHC survey information to be incorporated in CFM



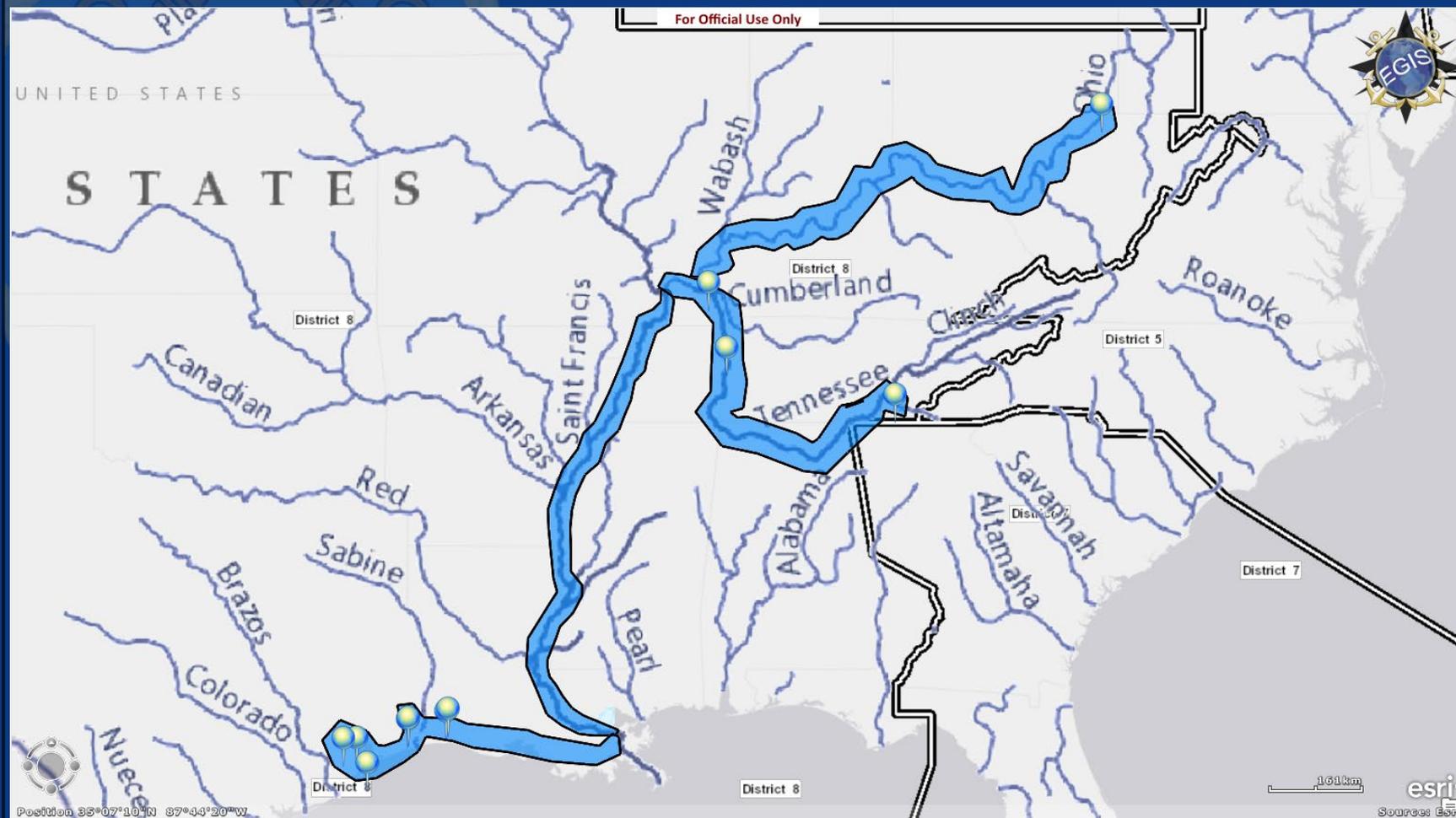
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Chlorine 2012



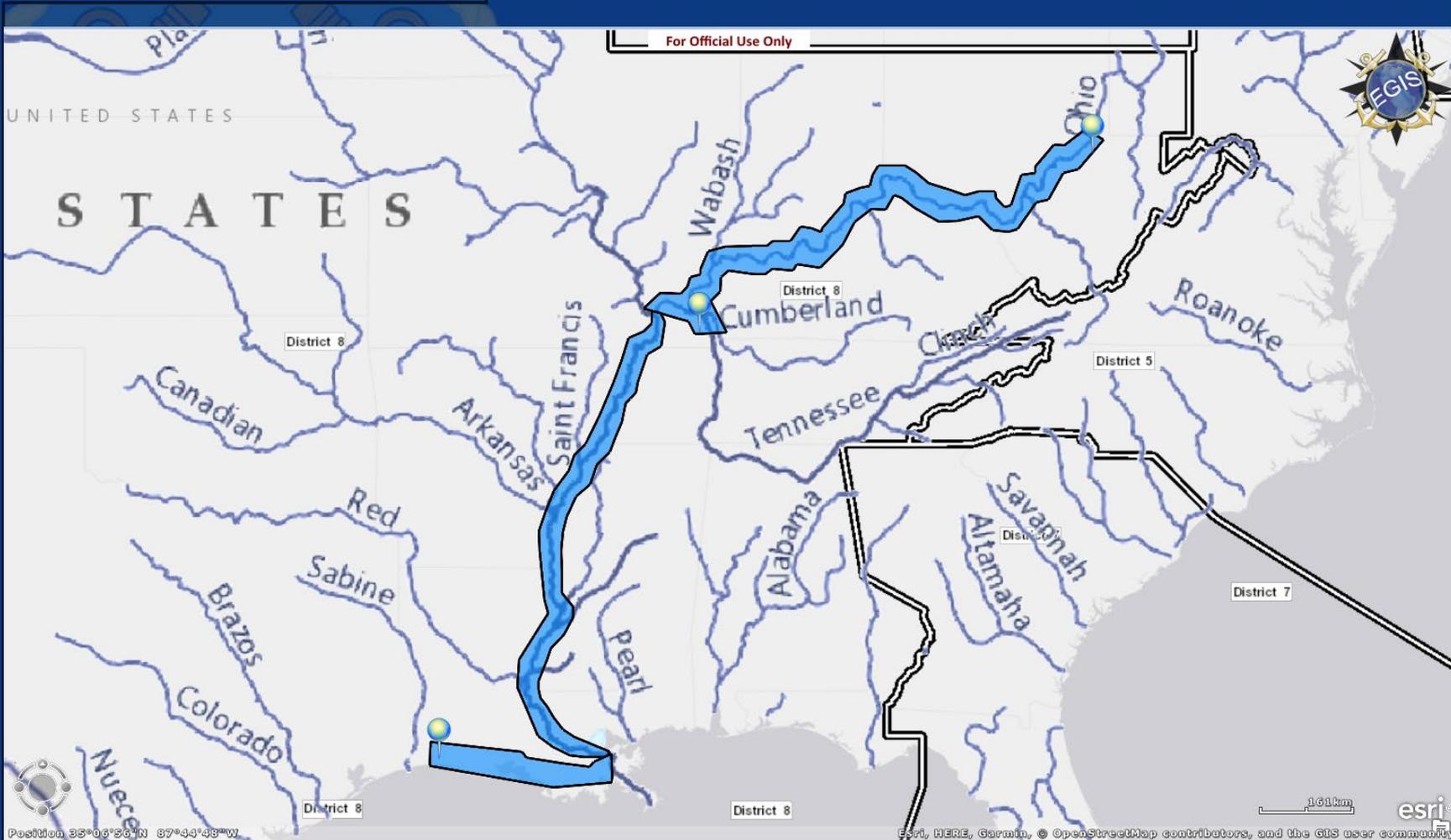
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Chlorine 2016



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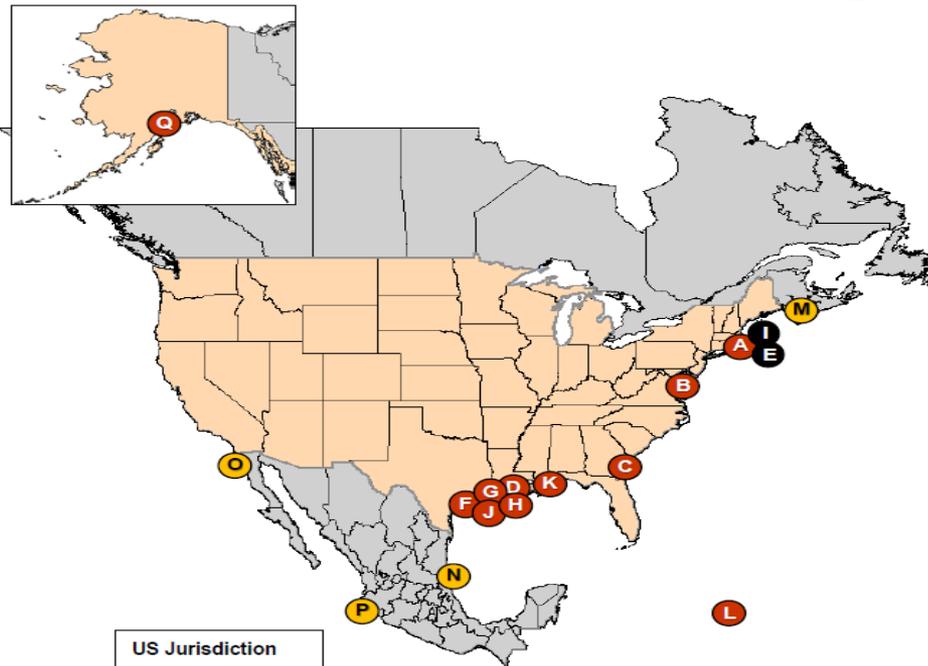


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FERC

North American LNG Import/Export Terminals *Existing*



US Jurisdiction
 ● FERC
 ● MARAD/USCG

As of July 2, 2018

★ Authorized to re-export delivered LNG

Import Terminals

U.S.

- A. Everett, MA: 1.035 Bcfd (GDF SUEZ - DOMAC)
- B. Cove Point, MD: 1.8 Bcfd (Dominion - Cove Point LNG)
- C. Elba Island, GA: 1.6 Bcfd (El Paso - Southern LNG)
- D. Lake Charles, LA: 2.1 Bcfd (Southern Union - Trunkline LNG)
- E. Offshore Boston: 0.8 Bcfd (Excelerate Energy - Northeast Gateway) ★
- F. Freeport, TX: 1.5 Bcfd (Cheniere/Freeport LNG Dev.) ★
- G. Sabine, LA: 4.0 Bcfd (Cheniere/Sabine Pass LNG) ★
- H. Hackberry, LA: 1.8 Bcfd (Sempra - Cameron LNG)
- I. Offshore Boston, MA: 0.4 Bcfd (GDF SUEZ - Neptune LNG)
- J. Sabine Pass, TX: 2.0 Bcfd (ExxonMobil - Golden Pass) (Phase I & II)
- K. Pascagoula, MS: 1.5 Bcfd (El Paso/Crest/Sonangol - Gulf LNG Energy LLC)
- L. Peñuelas, PR: 0.3 Bcfd (EcoElectrica)

Canada

- M. Saint John, NB: 1.0 Bcfd (Repsol/Fort Reliance - Canaport LNG)

Mexico

- N. Altamira, Tamulipas: 0.7 Bcfd (Shell/Total/Mitsui - Altamira LNG)
- O. Baja California, MX: 1.0 Bcfd (Sempra - Energia Costa Azul)
- P. Manzanillo, MX: 0.5 Bcfd (KMS GNL de Manzanillo)

Export Terminals

U.S.

- B. Cove Point, MD: 0.82 Bcfd (Dominion-Cove Point LNG) (CP13-113)
- G. Sabine, LA: 2.8 Bcfd (Cheniere/Sabine Pass LNG - Trains 1, 2, 3 & 4)
- Q. Kenai, AK: 0.2 Bcfd (ConocoPhillips)



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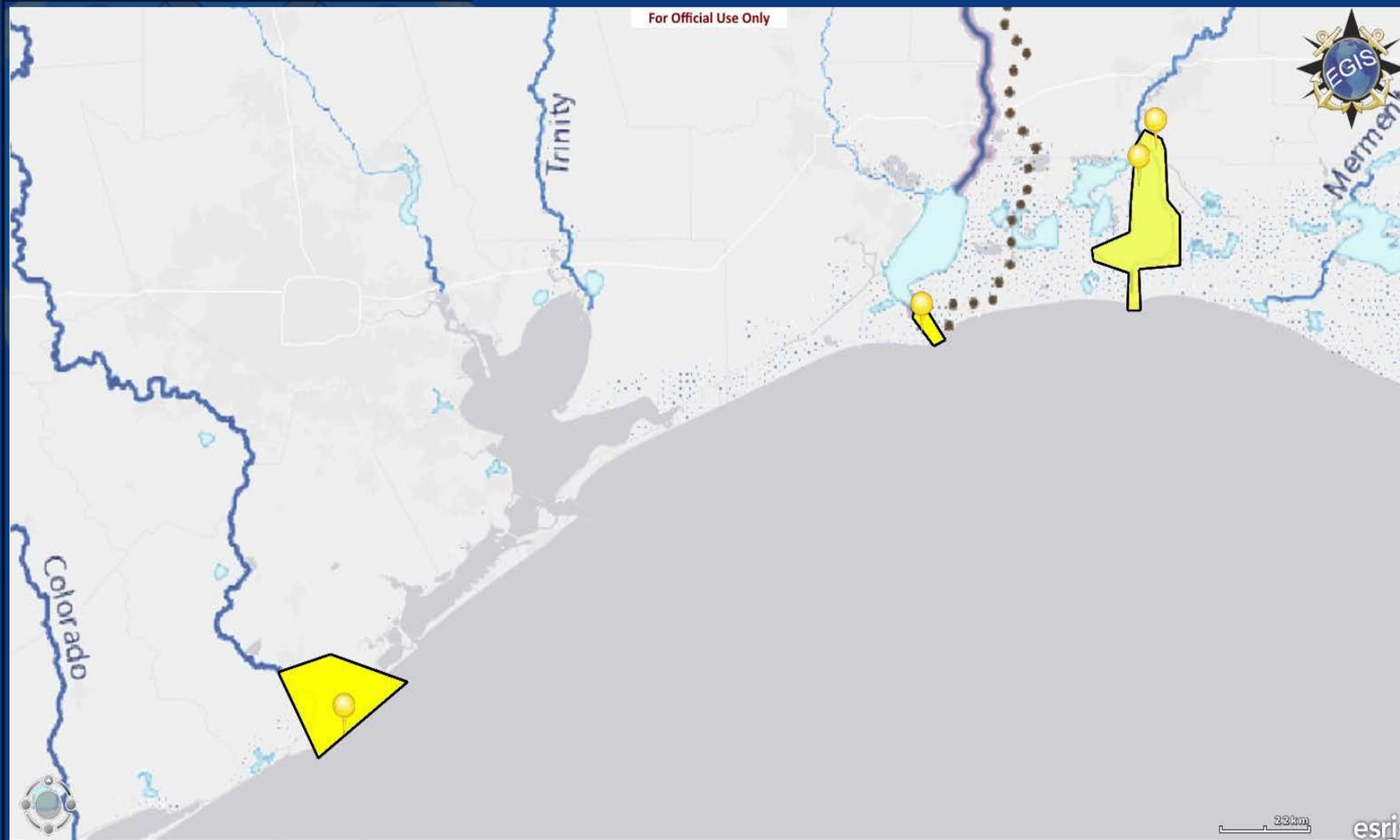


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LNG Gulf

For Official Use Only



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Thank You



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