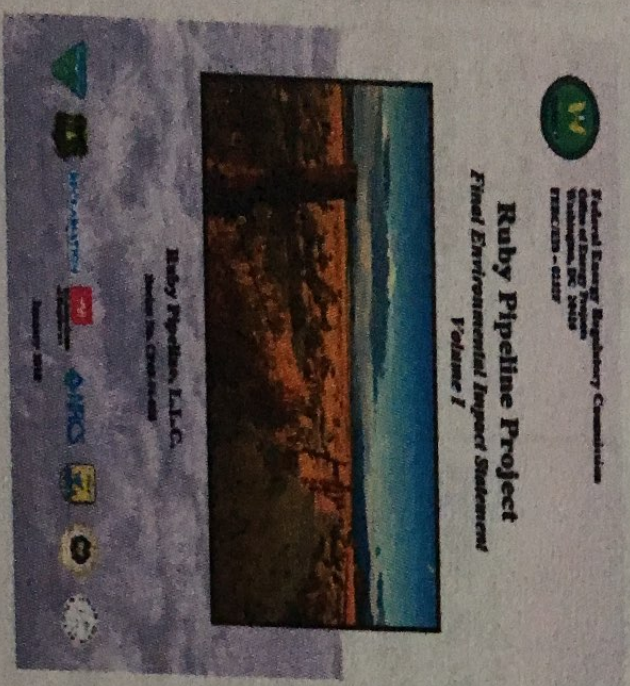


# Federal Energy Regulatory Commission



## USA Natural Gas Pipelines



**FERC**  
**Gas**  
**Tariffs**

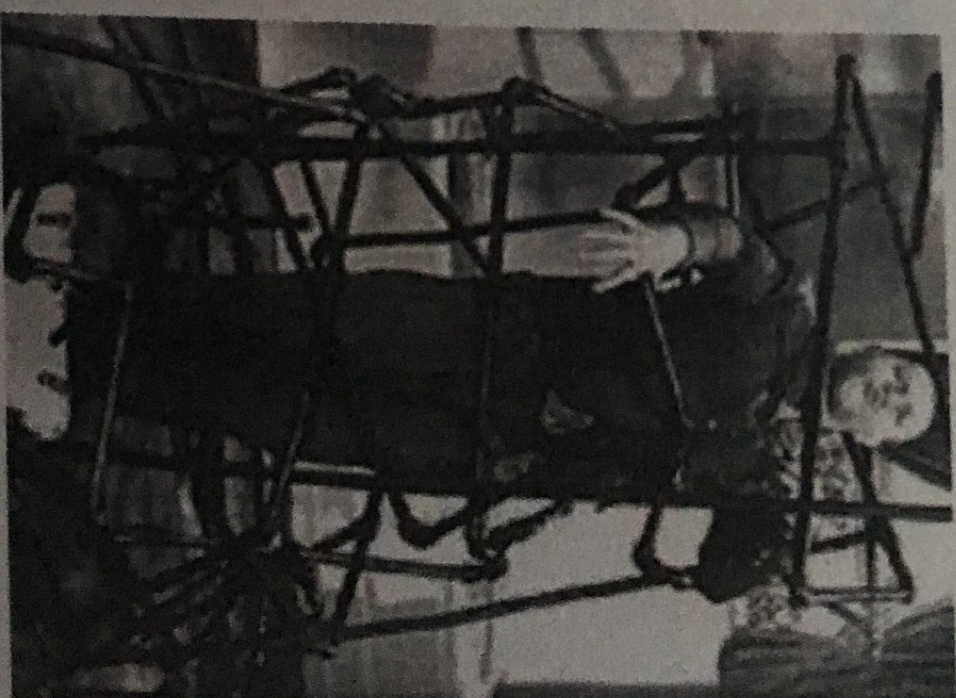
October 31, 2017



# USA Gas Industry Sectors



- Drilling and Production
- Gathering
- Processing Plants
- Intrastate Pipelines
- Interstate Pipelines - FERC
- Interstate Storage - FERC
- Pipeline Imports & Exports - FERC
- LNG Imports & Exports – FERC
- Local Distribution





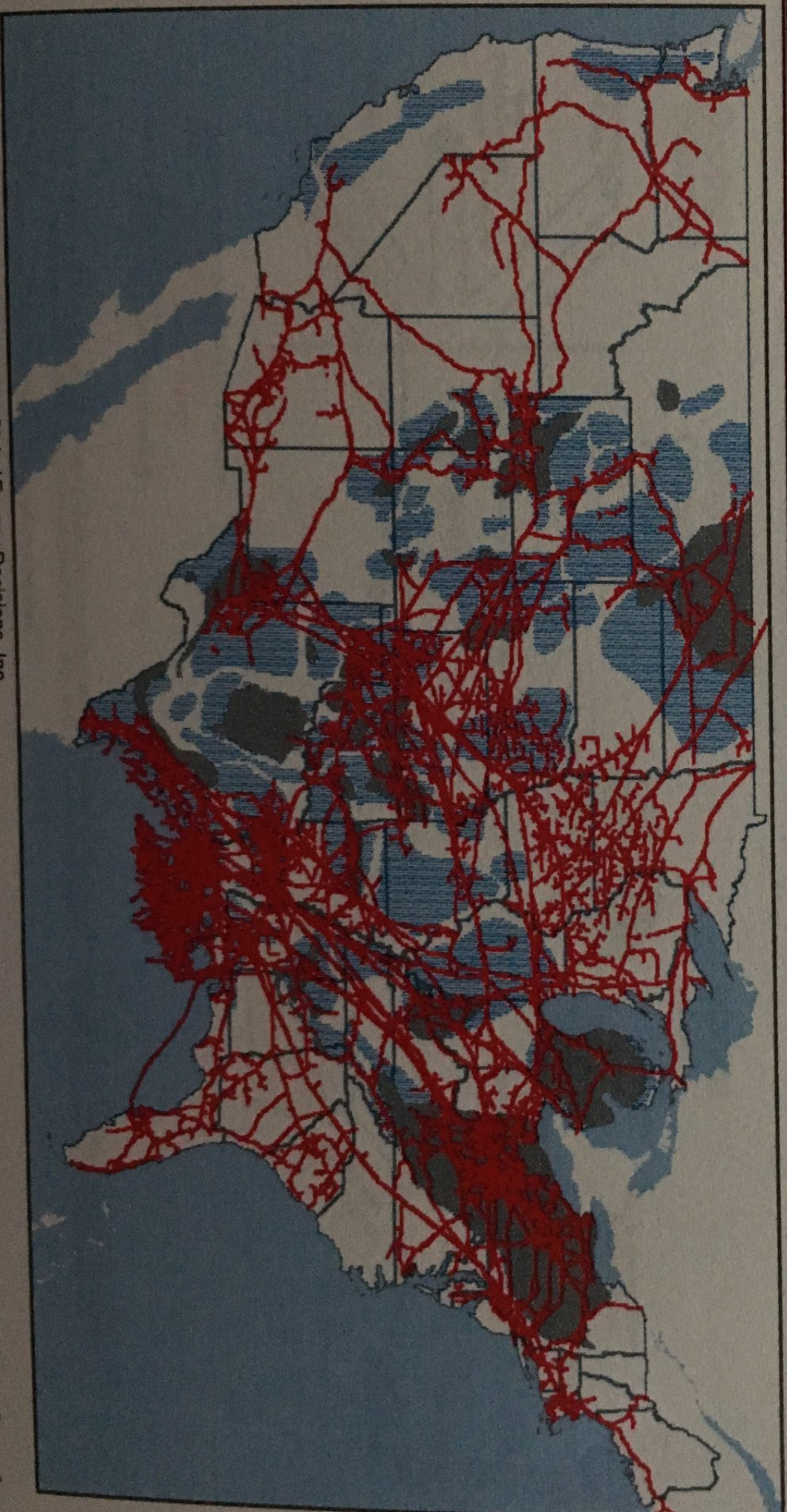
# USA Natural Gas Sectors & Regulation



Sector	Regulation	Shared Information	Industry Organizations
Production, Gathering & Intrastate Pipelines	State Government Authority	Interstate Oil & Gas Compact Commission	Natural Gas Supply Association, American Petroleum Institute & America's Natural Gas Alliance
Interstate Pipelines & Interstate Storage	<b>FERC</b> & Pipeline and Hazardous Materials Safety Administration	Memorandum of Understanding Among Various Federal Agencies	Interstate Natural Gas Association of America
Imports/Exports by LNG or Pipe	DOE – Office of Fossil Energy <b>FERC - Terminals</b>	DOE/OFE & DOE/ Energy Information Administration	Center for Liquefied Natural Gas
Local Distribution	State Government Authority – Public Utility Comm.	National Association of Regulatory Utility Commissioners	American Gas Association & American Public Gas Association



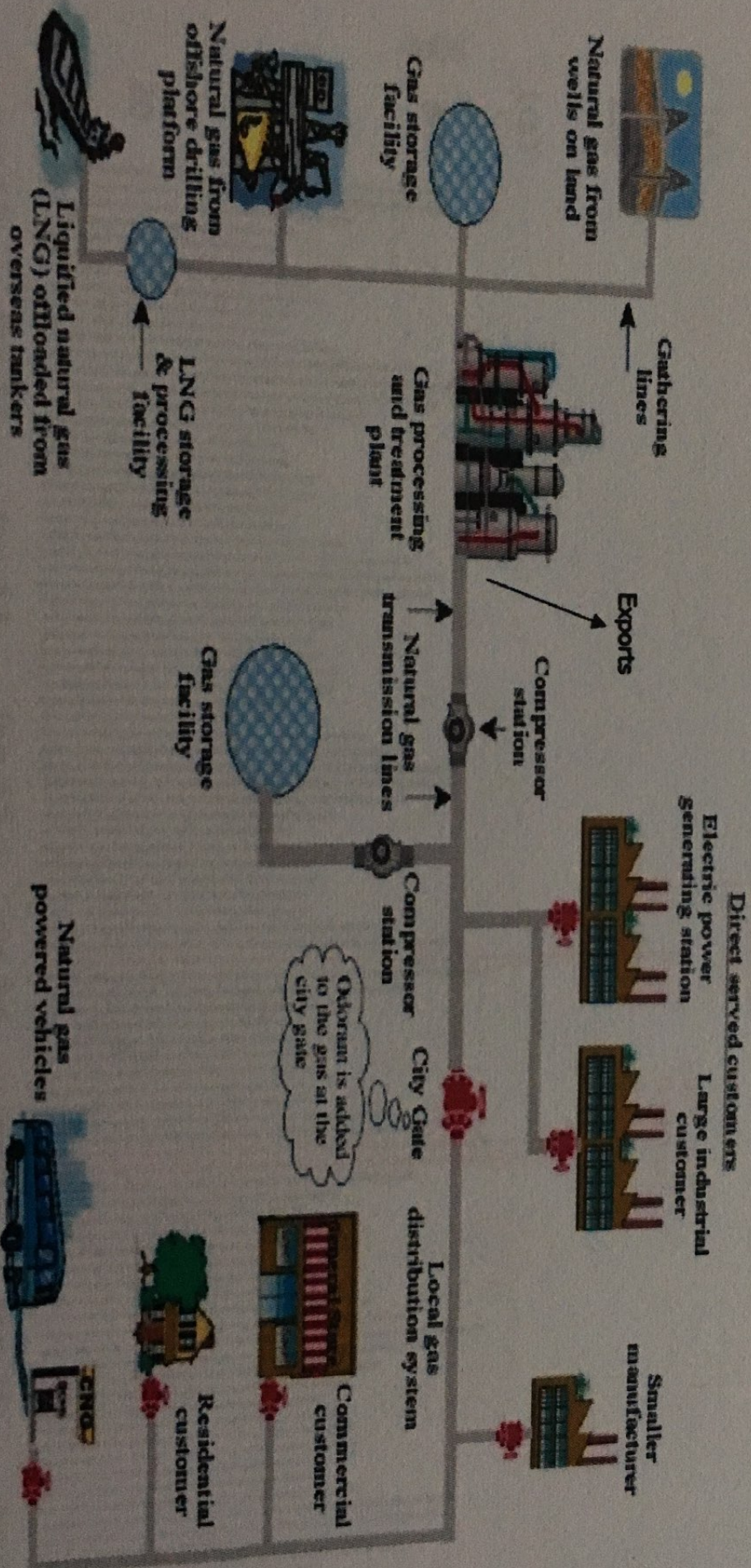
# 195,200 Miles of Interstate Pipelines



Source: Based on data from Ventyx Global Energy Decisions, Inc.,

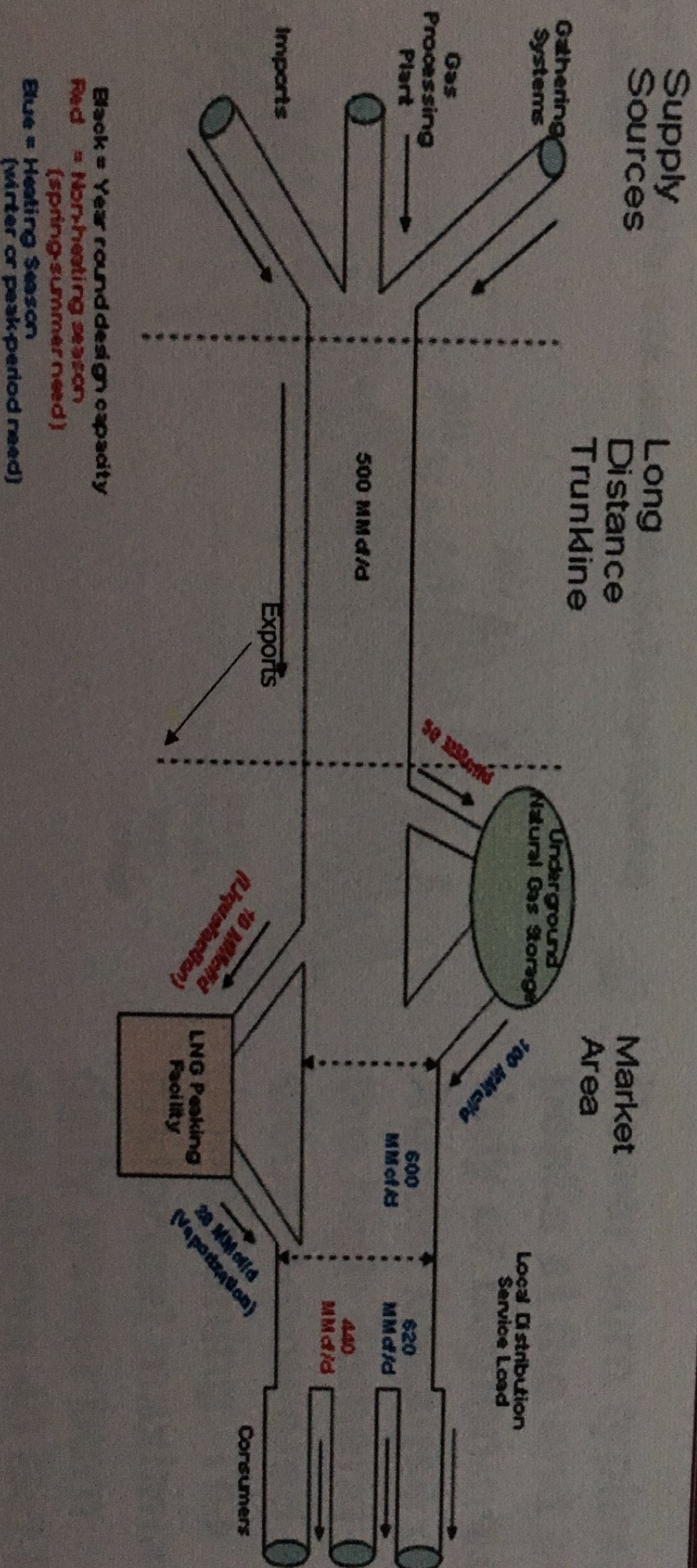


# USA Natural Gas Industry





# Storage & Seasonality



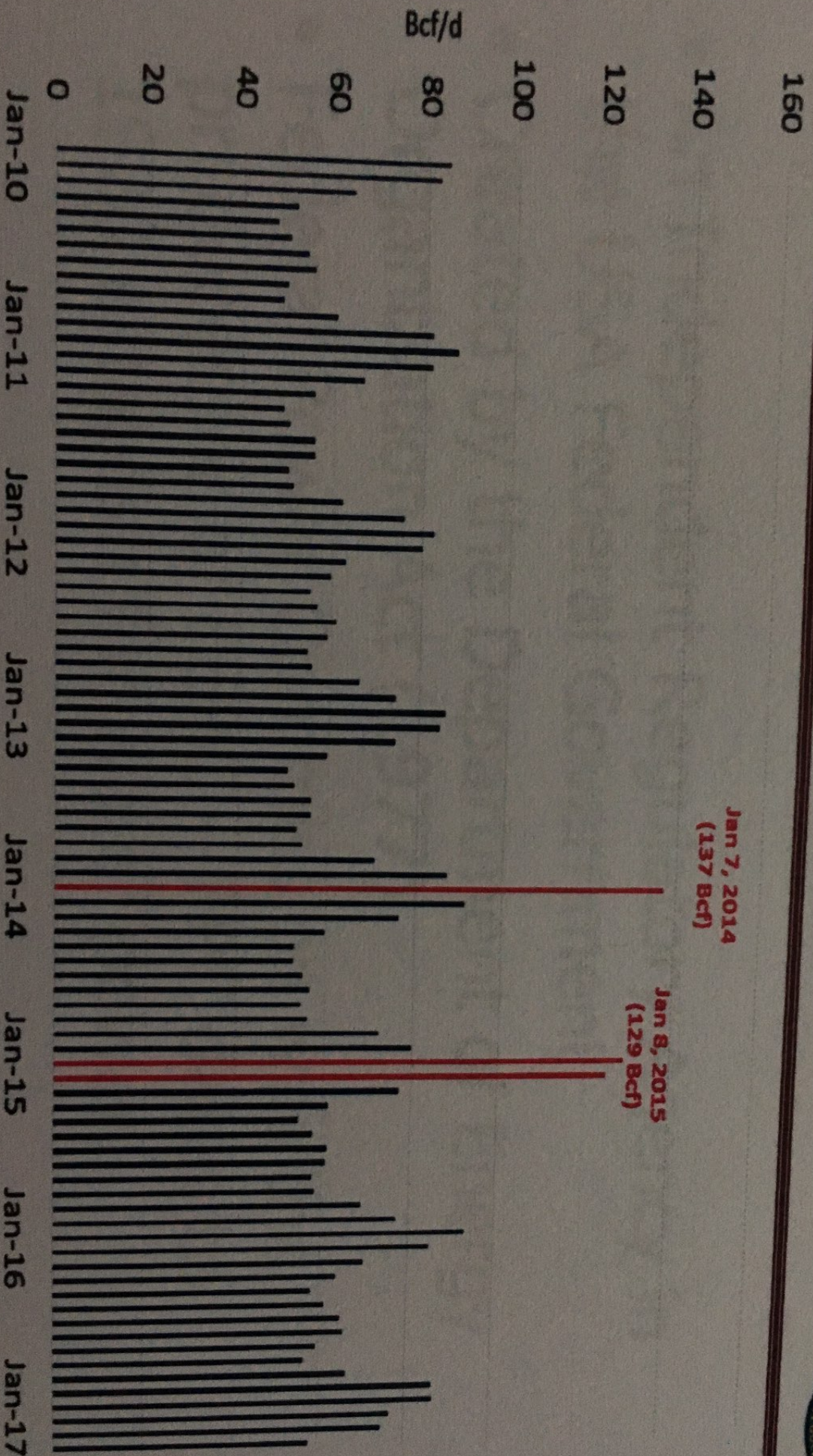
Note: MMcf/d = million cubic feet per day. Areas shown are not proportional to capacity volumes indicated. Other natural gas transmission pipelines may interconnect with and supplement the supplies of the mainline transmission company in the market area to meet peak period demands.

Source: Energy Information Administration, Office of Oil and Gas



# Monthly Deliveries in USA

Average cold winter months - **Polar Vortex in 2014 & 2015**



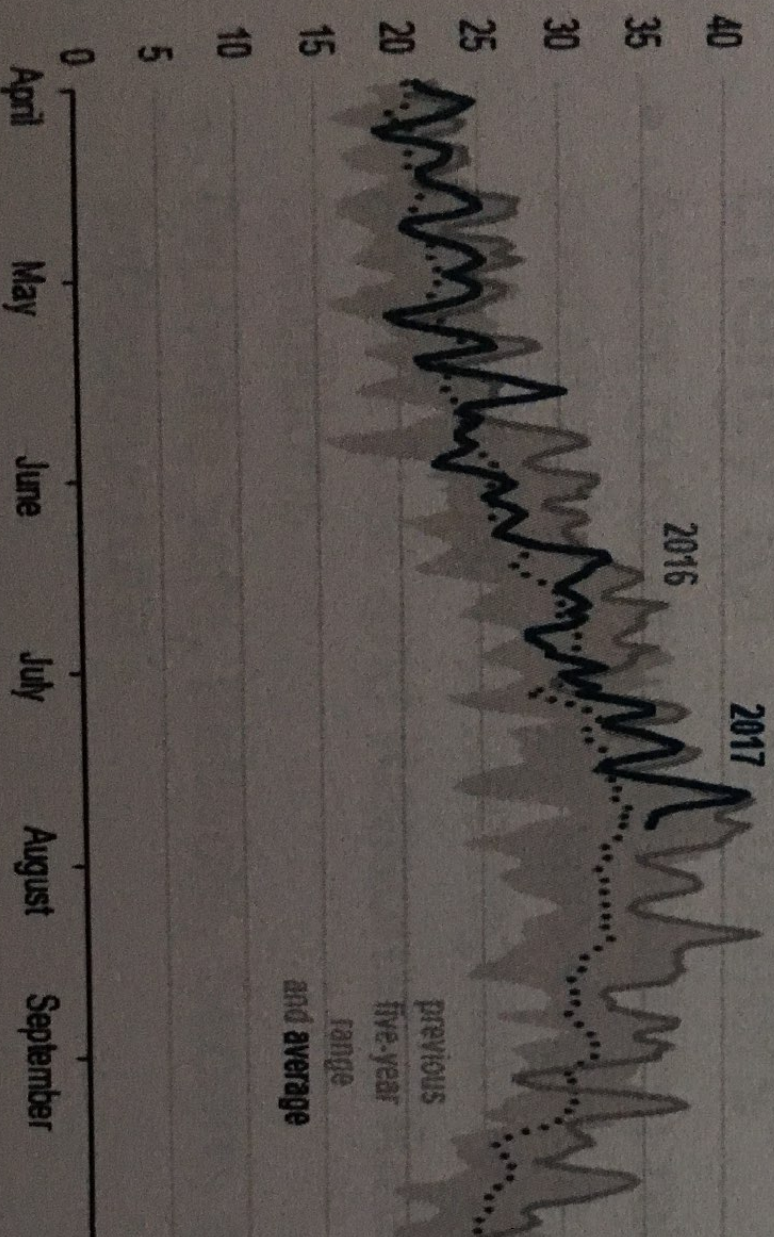
Source: EIA's Consumption by End-Use Spreadsheets, June 2017.



# U.S. Electric Power "Burn"



Natural gas consumed for electric power generation (April through September)  
billion cubic feet



Power burn typically peaks at the end of July or beginning of August because of the high demand for electric-powered air conditioning. The historical maximum daily power burn was above 40 Bcf in 2016 & 2017.

Source: EIA Natural Gas Weekly Update, for week ending July 19, 2017



## What Is FERC ?



- An Independent Regulatory Agency in the USA Federal Government
- Created by the Department of Energy Organization Act (1977)
- Federal Power Commission was the predecessor of FERC – FPC dates to 1920 establish for water power.



# FERC's Guiding Principles



- Reliable, Efficient and Sustainable Energy for Customers
- Assist consumers in obtaining reliable, efficient and sustainable energy services at a reasonable cost through appropriate regulatory and market means.
- Ensure Just and Reasonable Rates, Terms, and Conditions
- Promote Safe, Reliable, Secure, and Efficient Infrastructure



FERC

# Helping Markets Work



Adequate



Effective

Infrastructure  
Pipelines

Competitive

Market Rules  
Rate & Tariffs

Innovation  
Market

FERC

Market

Oversight  
Enforcement



# Natural Gas Act



The Natural Gas Act \* sets out FERC's responsibilities :

- Section 1 – Identifies projects exempt from FERC jurisdiction
- Section 3 – Allows FERC to authorize import/export facilities
- Sections 4 & 5 – Just and reasonable rates, no undue discrimination in service term and conditions
- Section 7 – Allows FERC to authorize interstate pipeline projects (including storage) and grant eminent domain

\* *Enacted in 1938, as amended*



# Gas Pipeline Program



- Evaluate applications for facilities to import, export, transport, store or exchange natural gas
- Authorize the construction and operation of facilities for such services
- Approve abandonment of such facilities
- Conduct environmental reviews of proposals involving construction, modification, or abandonment
- Conduct inspections of LNG facilities and pipeline construction



# Major Pipeline Construction Projects





# FERC Pipeline Certificate Process



- Non-Environmental Review and Analysis**
- Engineering – GQI, storage, hydraulic flow
  - Tariff – rates, terms & conditions of service
  - Policy – precedents, rules, regulations
  - Accounting

***Parallel Processing Paths***

**Preparation of EA or EIS**

- Water Resources
- Ecology – fish, wildlife, vegetation
- Cultural Resources – historic preservation
- Land use – recreation, aesthetics
- Soils and geology
- Air and noise
- Socioeconomic Impacts
- Alternatives

**File  
Application**

**Issue  
Order**



# The Environmental Report

## (13 Resource Reports)



1. General Project Description
2. Water Use & Quality
3. Fish, Wildlife & Vegetation
4. Cultural Resources
5. Socioeconomics
6. Geological Resources
7. Soils
8. Land Use, Recreation, & Aesthetics
9. Air & Noise Quality
10. Alternatives
11. Reliability & Safety
12. PCB Contamination (for pipelines only)
13. LNG Engineering & Design Details



# FERC Website for Environmental Review

<https://www.ferc.gov/industries/gas/enviro.asp>



CELEBRATING 40 YEARS

October 1, 1977

Enter Search Terms:

Search

Industries: 1) Natural Gas 2) Environment

## Environment

With respect to Natural Gas projects, FERC safeguards the environment by:

- Detecting, analyzing and minimizing impacts where it is feasible and reasonable to do so.
- Encourage applicants to communicate with relevant federal and state natural resources agencies, Indian tribes, and state water quality agencies, prior to submitting an application.
- Ensuring that all applicants perform the necessary studies to make an informed decision on the project.
- Issuing environmental assessments (EA) or draft and final environmental impact statement (EIS) for comment on most projects.
- Including requirements with any Certificate issued to reduce environmental impacts, and
- Visiting proposed project areas to determine the range of environmental issues requiring analysis and holding scoping meetings as appropriate.

## Environmental Documents

FERC makes electronic copies of the draft and final EISs available to the public. A limited number of paper copies are also available from the Public Reference Room (call toll-free 1-866-206-3676).

## Seminars

FERC staff will conduct training seminars entitled "Environmental Review and Compliance for Natural Gas Facilities," that will be held at various locations throughout the United States. Check here for times and locations.

## Guidelines

Various environmental guidelines and procedures prepared by FERC staff

## Third-Party Contractors

This program involves the use of independent contractors to assist Commission staff in its environmental review and preparation of environmental documents.

## Miscellaneous Guidelines and Reports:

- [Research of Wetland Construction and Mitigation Activities for Certified Section 7\(c\) Pipeline Projects Report](#) March 2004
- [Processes for the Environmental and Historic Preservation Review of Proposed Interstate Natural Gas Facilities](#)
- [Interagency Agreement on Early Coordination of Environmental Review of Natural Gas Pipelines](#)



# Natural Gas Act

## Costs, Rates, and Conditions of Service



- Initial Rates Set by Certificate
- Rates for Services for Customer
- Terms of Service for Customer
- Detailed Tariff Terms & Conditions
- Cost Recovery for Pipeline
- Operation of Secondary Market
- Market Oversight - Three-year rate review certificate condition



# Pipeline Safety & Integrity



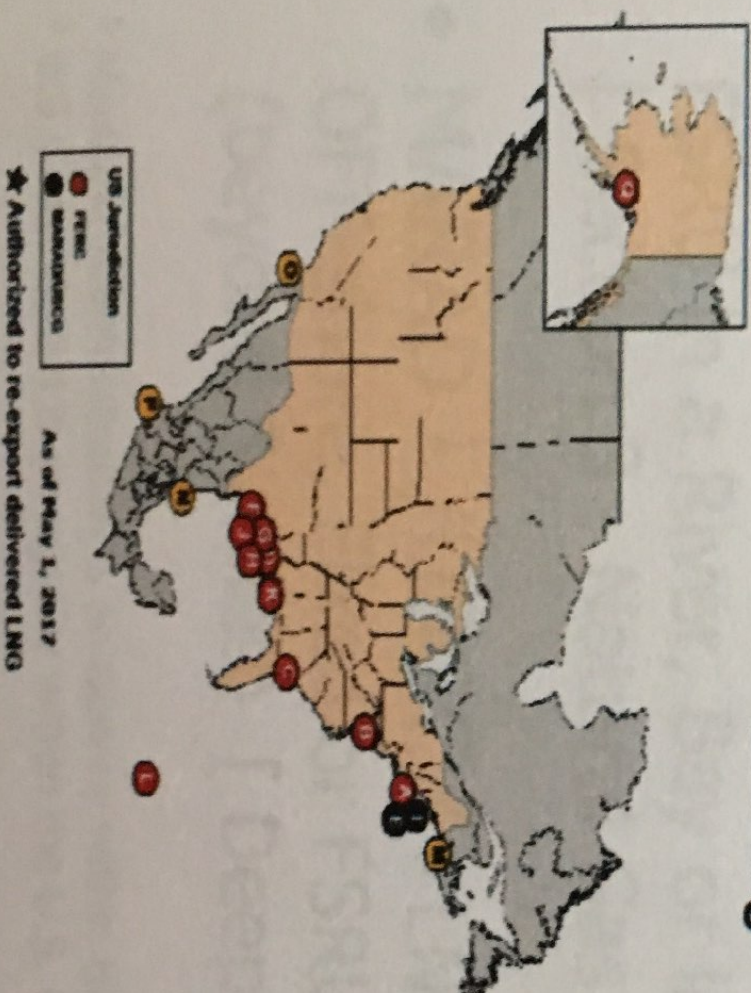
- Good siting decisions by FERC
- Follow safety, inspection & integrity rules of Pipeline and Hazardous Materials Safety Administration
- Accident investigations by National Transportation Safety Board
- Department of Homeland Security, National Infrastructure Protection Plan, Energy Sector



# FERC's Role in the Siting Regulation of LNG import or Export Terminals



## North American LNG Import/Export Terminals Existing



### Import Terminals

#### U.S.

- A. Everett, MA: 1.025 Bbl/d (GDF SUEZ - DOMAC)
- B. Cove Point, MD: 1.8 Bbl/d (Dominion - Cove Point LNG)
- C. Elba Island, GA: 1.6 Bbl/d (El Paso - Seaboard LNG)
- D. Lake Charles, LA: 2.1 Bbl/d (Southern Union - Tundra LNG)
- E. Onshore Bakersfield: 0.8 Bbl/d (ExxonMobil Energy - Northeast Gateway)
- F. Freeport, TX: 1.5 Bbl/d (Cheniere/Freeport LNG Dev.) ★
- G. Sabine, LA: 4.0 Bbl/d (Cheniere/Sabine Pass LNG) ★
- H. Henderson, LA: 1.8 Bbl/d (Cheniere - Cameron LNG)
- I. Onshore Houston, MA: 0.4 Bbl/d (GDF SUEZ - Neptune LNG)
- J. Sabine Pass, TX: 2.0 Bbl/d (ExxonMobil - Sabine Pass) (Phase 1 & 1b)
- K. Freeport, MD: 1.5 Bbl/d (El Paso/Crest/Cameron - Gulf LNG Energy LLC)
- L. Pasadena, PR: 0.2 Bbl/d (ExxonMobil)

#### Canada

- M. Saint John, NB: 1.0 Bbl/d (Petro-Canada - Camport LNG)

#### Mexico

- N. Altamira, Tamaulipas: 0.7 Bbl/d (Shell/TOTAL/Mex - Altamira LNG)
- O. Baja California, BTE: 1.0 Bbl/d (Petrobras - Energia Costa Azul)
- P. Manzanillo, BTE: 0.5 Bbl/d (Petrobras - Energia Costa Azul)

### Export Terminals

#### U.S.

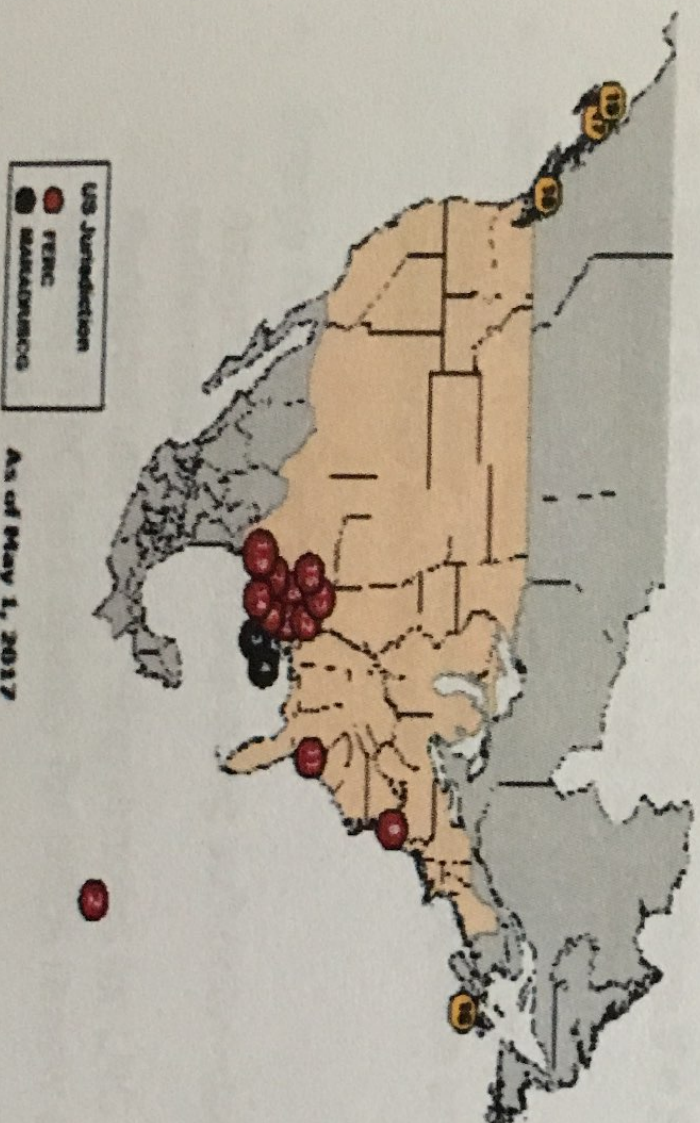
- Q. Kenai, AK: 0.2 Bbl/d (ConocoPhillips)
- R. Sabine, LA: 2.1 Bbl/d (Cheniere/Sabine Pass LNG - Trane 1, 2 & 3)



# More LNG Terminals Under Review



## North American LNG Import/Export Terminals Approved



### Import Terminals

#### U.S.

##### APPROVED - UNDER CONSTRUCTION - FERC

1. Corpus Christi, TX: 0.4 Bcf/d (Cheniere - Corpus Christi LNG) (CP12-507)

##### APPROVED - NOT UNDER CONSTRUCTION - FERC

2. Sabine, TX: 0.6 Bcf/d (Vantage Offshore GasPort, LLC) (CP13-193)

##### APPROVED - NOT UNDER CONSTRUCTION - MARAD/Coast Guard

3. Gulf of Mexico: 1.0 Bcf/d (Main Pass WestAfrica Exp.)

4. Gulf of Mexico: 1.4 Bcf/d (TOSIP Technology-Blenville LNG)

### Export Terminals

#### U.S.

##### APPROVED - UNDER CONSTRUCTION - FERC

5. Sabine, LA: 0.7 Bcf/d (Cheniere/Sabine Pass LNG) (CP13-72 & CP14-12)

6. Hackberry, LA: 2.1 Bcf/d (Sengra-Cameron LNG) (CP13-25)

7. Freeport, TX: 2.14 Bcf/d (Freeport LNG Dev/Freeport LNG Expansion/FLNG Liquefaction) (CP12-509) (CP15-518)

8. Corpus Christi, TX: 0.82 Bcf/d (Donnerstag-Cove Point LNG) (CP13-113)

9. Corpus Christi, TX: 2.14 Bcf/d (Cheniere - Corpus Christi LNG) (CP12-507)

10. Sabine Pass, LA: 1.40 Bcf/d (Sabine Pass Liquefaction) (CP13-052) ★

11. Elba Island, GA: 0.35 Bcf/d (Southern LNG Company) (CP14-103)

##### APPROVED - NOT UNDER CONSTRUCTION - FERC

12. Lake Charles, LA: 2.2 Bcf/d (Southern Union - Lake Charles LNG) (CP14-120)

13. Lake Charles, LA: 1.08 Bcf/d (Magnum LNG) (CP14-347)

14. Hackberry, LA: 1.41 Bcf/d (Sengra - Cameron LNG) (CP15-540)

15. Sabine Pass, TX: 2.1 Bcf/d (ExxonMobil - Golden Pass) (CP14-517)

#### Canada

##### APPROVED - NOT UNDER CONSTRUCTION

16. Port Harboursburg, NB: 0.5 Bcf/d (Bear Head LNG)

17. Richmond, BC: 3.23 Bcf/d (LNG Canada)

18. Squamish, BC: 0.29 Bcf/d (Northwest LNG Ltd)

19. Prince Rupert Island, BC: 2.74 Bcf/d (Prairie Northwest LNG)

★ Terminals 5 & 8 with Train 5 under construction



# FERC or Deepwater Port



- FERC - LNG Terminal is ON-shore, Fixed or FSRU in a River, Bay or in State Waters (3-mile) [ Section 3 - Natural Gas Act ]

- MARAD <sup>1</sup> /USGC <sup>2</sup> - LNG Terminal is OFF-shore, Fixed or FSRU in Federal Waters (beyond 3 miles) [ Deepwater Port Act ]

<sup>1</sup> Maritime Administration is an agency within the U.S. Department of Transportation

<sup>2</sup> U.S Coast Guard is an agency within the U.S. Department of Homeland Security



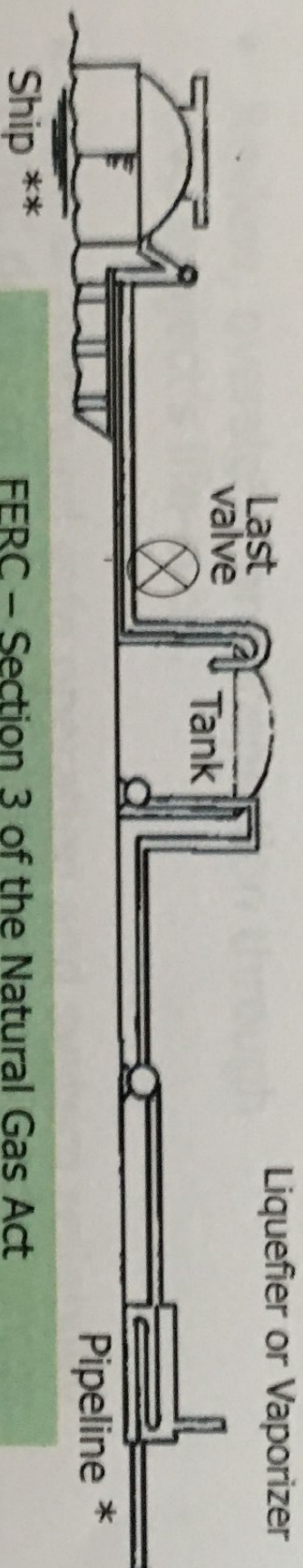
# FERC's LNG / Pipeline Siting Authority



- Section 3 of the Natural Gas Act
  - Approval unless FERC finds that an importation or exportation **facility** proposal " will not be consistent with the public interest "
  - Based on delegation of authority from the Secretary of Energy; Delegation Order No. 00-004.00A, effective May 16, 2006,
- Section 7 of the Natural Gas Act – *WHEN an interstate pipeline is connected*
  - Determination that an interstate pipeline or storage project in in the public convenience and necessity
- Energy Policy Act of 2005
  - Assigns FERC exclusive siting authority—does not preempt other required federal authorizations
  - Mandates use of Pre-Filing Process for LNG terminals
  - Names FERC lead agency for NEPA review and coordinator of all federal authorizations
  - Codifies the 2002 Hackberry policy regarding not regulating the **economic** aspects of an LNG Terminal



# Multi-Agency Jurisdiction



FERC – Section 3 of the Natural Gas Act

FERC – Lead Agency for Environmental Impact Statement

USCG – 33 CFR Part 127

DOT – 49 CFR Part 193 Safety Standards

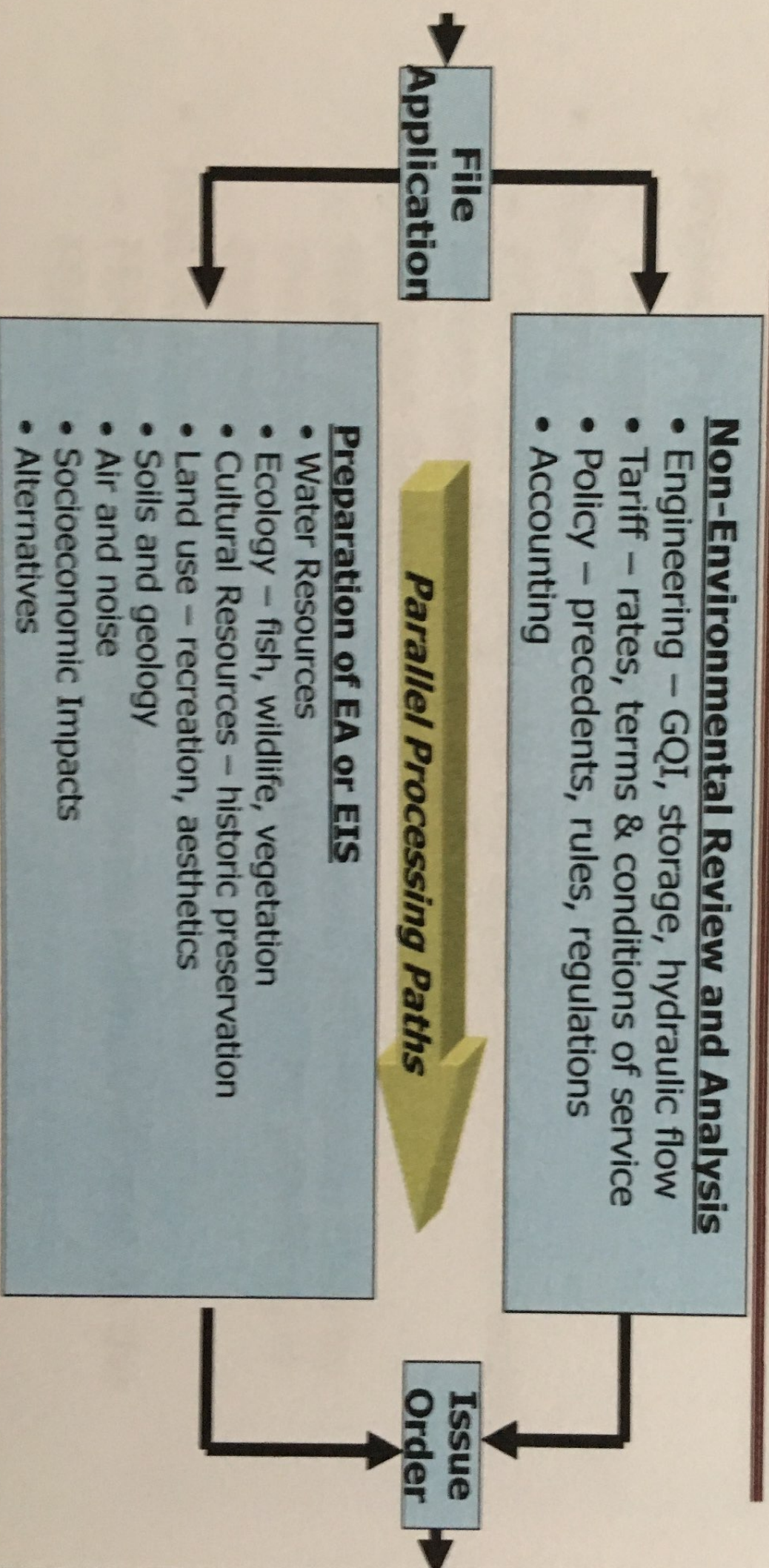
USCG – 33 CFR Part 105 Facility Security

\* The Pipeline could be non-jurisdictional to FERC

\*\* The Gas/LNG export must be approved by DOE under Section 3



# \* FERC Pipeline Certificate Process





# LNG Program



- Review, oversight, and inspection through LNG project's life-cycle.
- Goal = continued safe operation and system reliability. FERC does not review LNG terminal costs and charges.
- Pre-Authorization Review
  - Includes relevant environmental issues, air, noise, engineering design, wildlife, wetlands, etc.
- Post-Authorization Review
  - Primarily facility construction and operation



# Phases of an LNG Project Review



- Project Preparation
  - The applicant working on its own
- Pre-Filing
  - FERC staff working with the applicant and stakeholders before the filing of an application
- Application Review
  - FERC staff analyzes and reviews information filed by the applicant and stakeholders after the pre-filing is complete
- Post-Authorization
  - FERC staff ensures compliance with conditions to the FERC's approval



# LNG Project Review Process



Start of Pre-Filing Process

Scoping Meeting / Site Visit

Data Requests, Analysis & Agency Coordination

Notice of Application

Interventions & Protests

Issue EA or DEIS

Public Meeting / Comments

Issue FEIS, if applicable

Authorization / Denial

## Safety & Engineering

Cryogenic Design &  
Safety Review

Waterway Suitability  
Assessment Review

USCG Letter of Recommendation



# Engineering Review

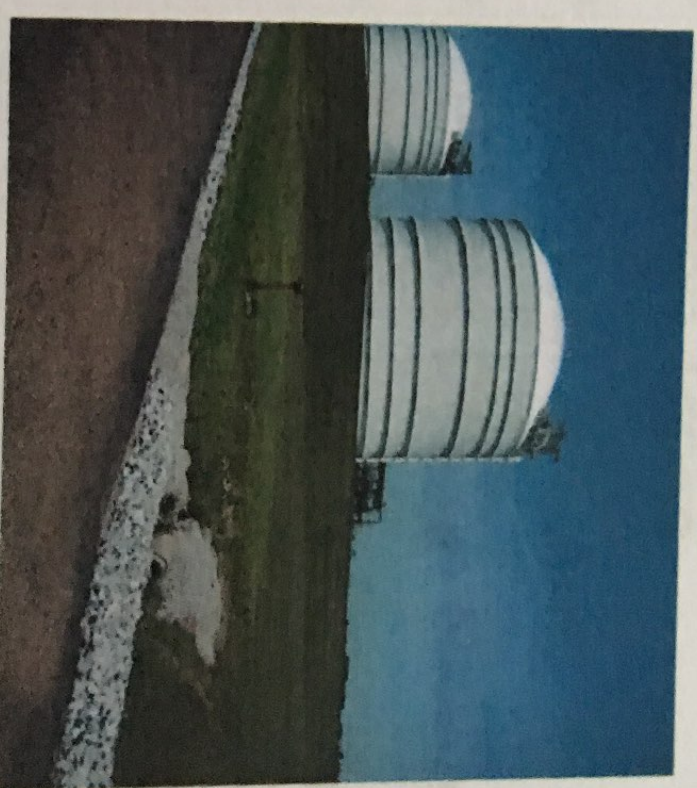


## Onshore Facility Review

- LNG Hazards & Safety – Resource Report 11
- Cryogenic Design and Technical Review – Resource Report 13
- Coordination with U.S. DOT for Land Based Facilities

## Marine Safety Review

Coordination with United States Coast Guard





## LNG Facility Hazards



- Thermal Radiation
- Flammable Vapor Dispersion
- Vapor Cloud Explosion
- Emergency Response Plan
- Waterway Security



# Cryogenic Design Review



- Marine Facilities
- LNG Pumps
- LNG Vaporizers
- Pre-treatment Equipment
- Liquefaction Equipment
- Compressors & Blowers
- Process Vessels
- Process Piping Systems
- Instrument Pneumatic Sys.
- Instrumentation & Controls
- Fuel Gas System
- Storage Tanks
- Electrical Systems
- Seismic Design Review
- Operational Reliability
- Training, Operation & Emergency Procedures
- 49 CFR 193 & NFPA 59A, as applicable



## Marine Traffic and Vessel Safety



- Letter of Intent Process under 33 CFR 127
- NVIC 01-11: Guidance Related to Waterfront LNG Facilities
- U.S. Coast Guard Letter of Recommendation
- Interagency Agreement  
Safety and Security Review of Waterfront  
Import/Export Liquefied Natural Gas  
Facilities - February 11, 2004

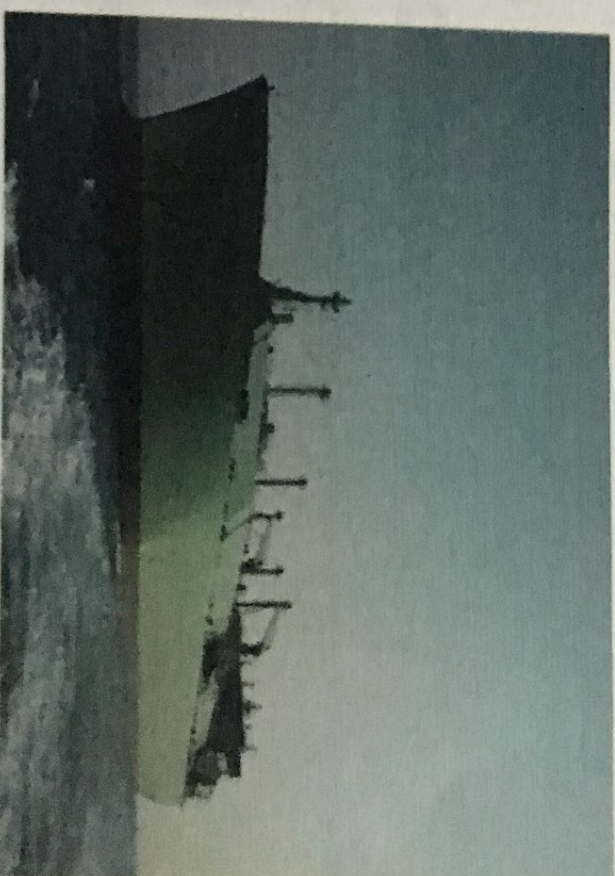




# Marine Traffic and Vessel Safety



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- U.S. Coast Guard Letter of Recommendation
- Interagency Agreement  
Safety and Security Review of Waterfront  
Import/Export Liquefied Natural Gas  
Facilities - February 11, 2004





# Phased Authorizations



## ■ **Commission Order :**

- Initial Commission authorization
- Contains environmental/engineering conditions considered necessary to ensure acceptable project
- Based on Front End Engineering Design supplied by applicant

## ■ **Authorization to Construct :**

- Required prior to any site construction
- Includes FERC approval of environmental conditions, Emergency Response Plan and Cost Sharing Plan, and engineering conditions related to public safety
- Based on continuous staff review during Detailed Engineering Design Phase



## Phased Authorizations – con't



- **Authorization to Operate :**
  - Final Commission authorization
  - Will not be granted until all conditions of the Order are satisfied
  - Based on staff review and approval of Final Engineering Design
  - Oversight continued throughout operational life of facility



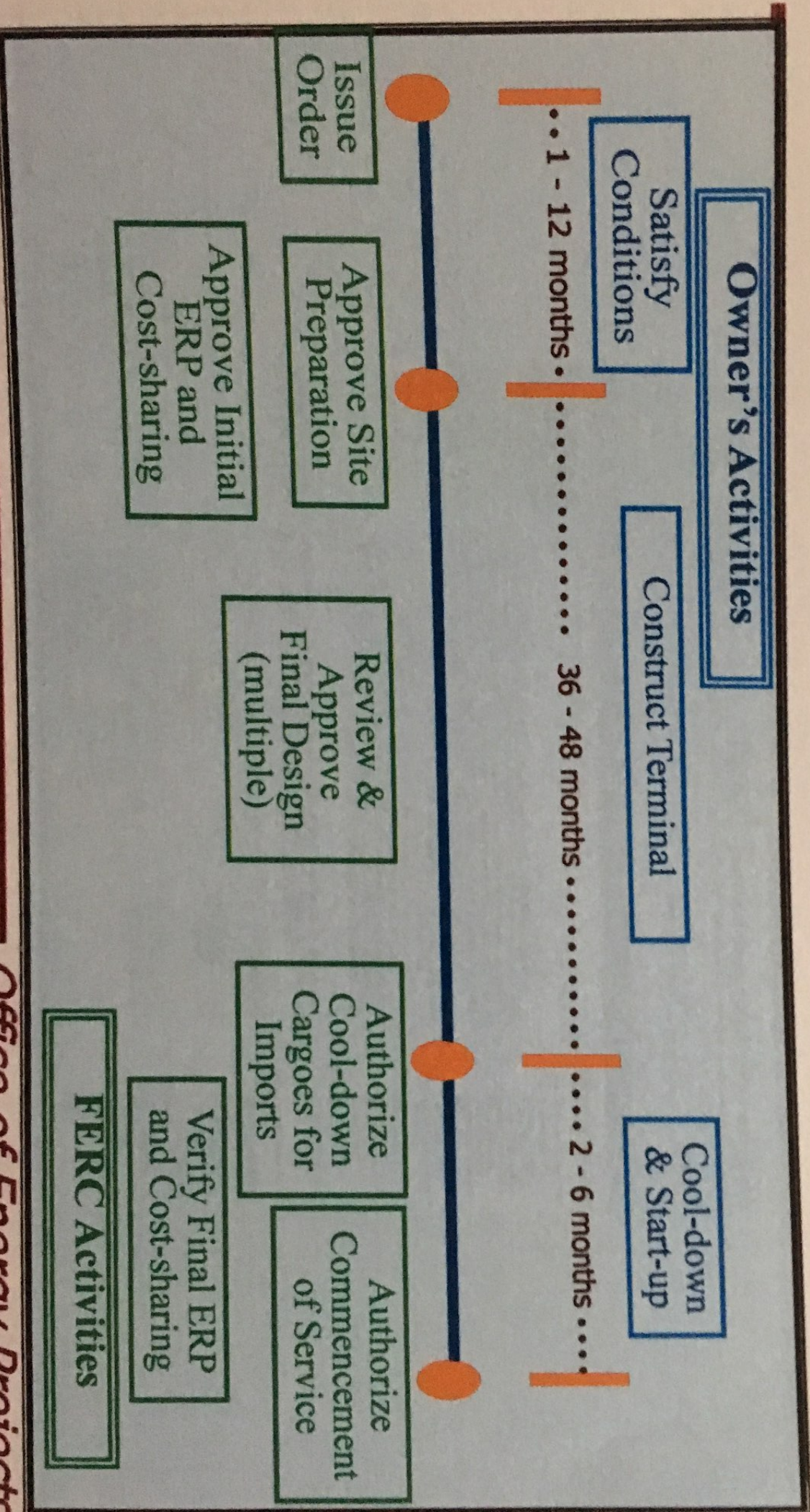
# Post-Authorization Review



- Final facility design and engineering review.
- Inspection and oversight of LNG facility construction.
- Annual/biennial inspection of facility operations.



# Construction Review Process





# Operational Review Process



- **Reporting Requirements**
  - Immediate Notification For Unusual/Significant Events
  - Semi-Annual Operational Reports.
- **Periodic Staff Technical Reviews & Site Inspections**
  - Import / Export = Annual Inspection
  - Peakshaver = Biennial Inspection
- **Enforcement**
  - Civil Penalties
  - Order requires facility to submit to all steps deemed necessary by the Commission to ensure the protection of life, health, property, and the environment during construction and operation of the project (including facility modification or cessation of operations).





October 1, 1977

Search

Search

**Industries** 10 **Natural Gas** 10 **Industry Activities** 10 **ENR**

There are more than 110 LNG facilities operating in the U.S. performing a variety of services. Some facilities export natural gas from the U.S., some provide natural gas supply to the interstate pipeline system or local distribution companies, while others are used to store natural gas for periods of peak demand. There are also facilities which produce LNG for vehicle fuel or for industrial use. Depending on location and use, an LNG facility may be regulated by several federal agencies and by state utility regulatory agencies.

The FEPC is responsible for authorizing the siting and construction of offshore and near-shore LNG import or export facilities under Section 3 of the Natural Gas Act. The Commission, under Section 7 of the Natural Gas Act, also issues certificates of public convenience and necessity for LNG facilities engaged in interstate natural gas transportation by pipeline. As required by the National Environmental Policy Act, the FEPC prepares environmental assessments or impact statements for proposed LNG facilities under its jurisdiction. Click the links below for maps showing proposed and potential LNG projects.

Projects which are approved and built are subject to FERC oversight for as long as the facility is in operation. FERC currently regulates twenty-four operational LNG facilities. Click the links below for maps of operating LNG facilities under FERC jurisdiction.



- [illegible]

- **Project Research**  
Learn about energy developments in your area of the country.

- **FERC Reports and Orders**
  - **Unauthorized**
  - **Formal Notice** for Violations
  - **Private Notice** for Landmark Violations
  - **Enforcement** of 2613A/2615
  - **2615 Licensing**
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