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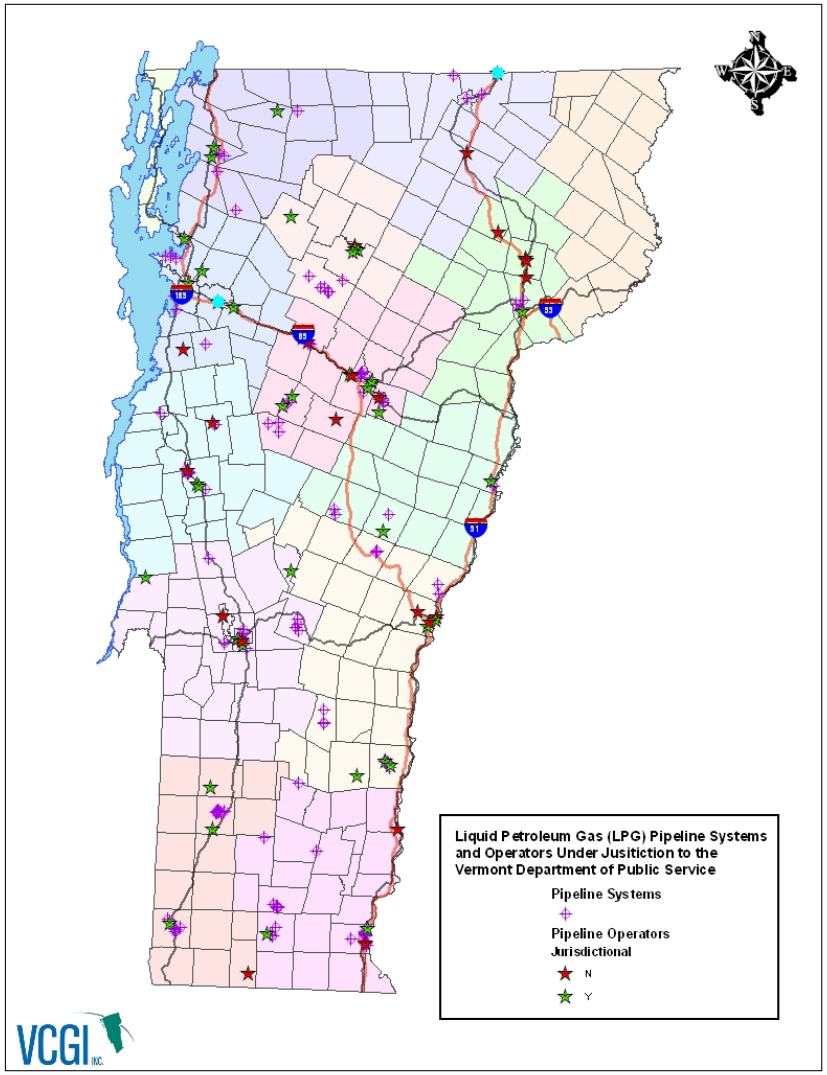
2015 NEPSR T&Q Pipeline Safety Seminar
Dover, Maine

Vermont Gas Pipeline Safety Program

- 1 full-time PM/inspector
- 1 part-time Engineering Director/tech support
- 2 part-time damage prevention
- 1 part time admin
- 1 part time attorney

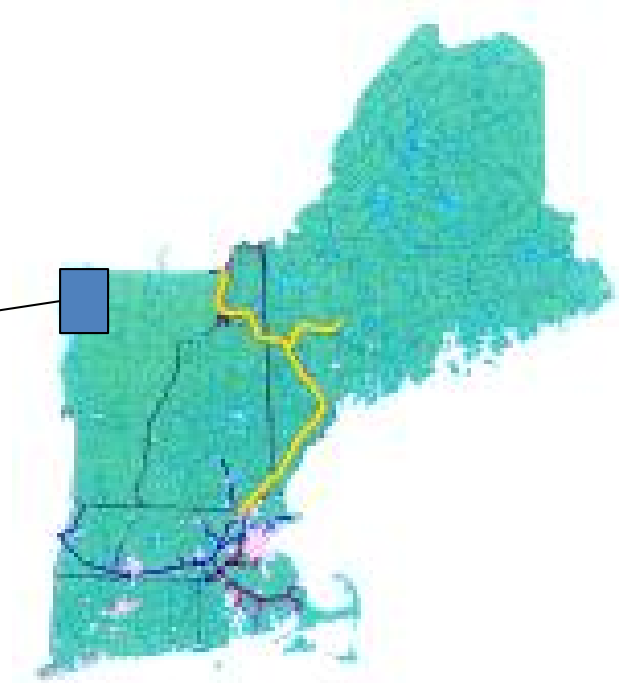
Propane Pipeline Facilities



18 LPG operators
342 LPG pipeline systems

3238 customers
- 1544 public places
- 1694 private places

Current Gas Pipeline Facilities



1 Intrastate Natural Gas Pipeline company

74 total Transmission miles, 10” dia: 40 miles, 16” dia: 21 miles

3.15 HCA miles

Distribution Materials

- Bare steel: 0
- Cast iron: 0

- Mains: 749 miles
  - PE : 562 miles
  - Steel : 187 miles
- Services: 37,211
  - PE : 32,583
  - Steel : 4,628

2014 Incidents

None

Enforcement issues

§192.225, Welding procedures

§192. 303, Unavailability of project design and construction info

§192. 805, Contractor qualifications

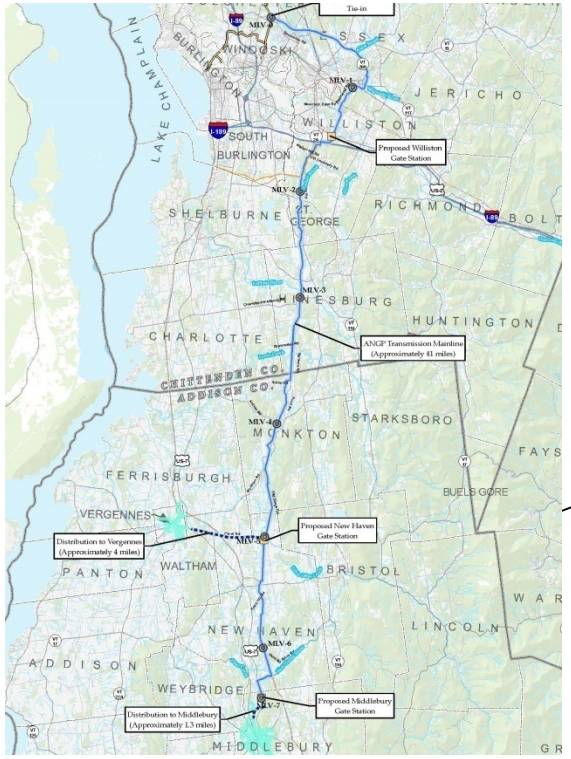
§192. 305, Contract inspection

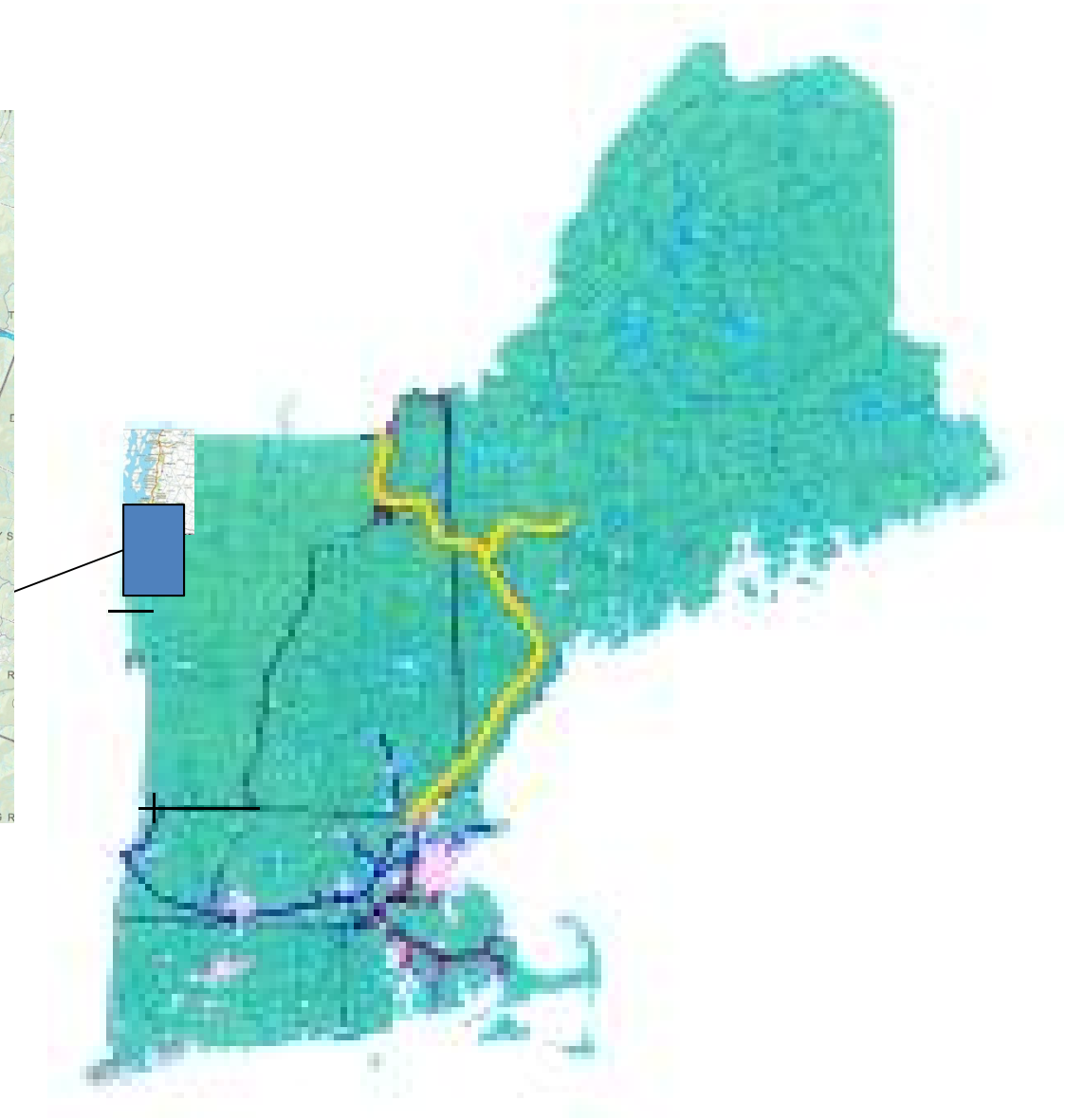
§192. 319(a), Pipeline installation, bending

§192. 319(b)(2), Pipeline installation, backfill and support

Gas Transmission Expansion

Phase I





Phase II
11 miles
Direct Sales Lateral
under Lake Champlain

Vermont Gas Systems Inc.
Transmission expansion project.

- Phase I: 43 miles
  - Under review from Public Service Board due the inadequate cost projections.
  - $80 million, $121 million, $154 million

Middlebury VT Gas Island

- Stranded facilities
- Gate Station
- 6 miles of Distribution pipeline
- Services to several industrial customers and Middlebury College

- Distribution system supplied by CNG
- Company claims the configuration to be first in country

Renewable Natural Gas Pipeline

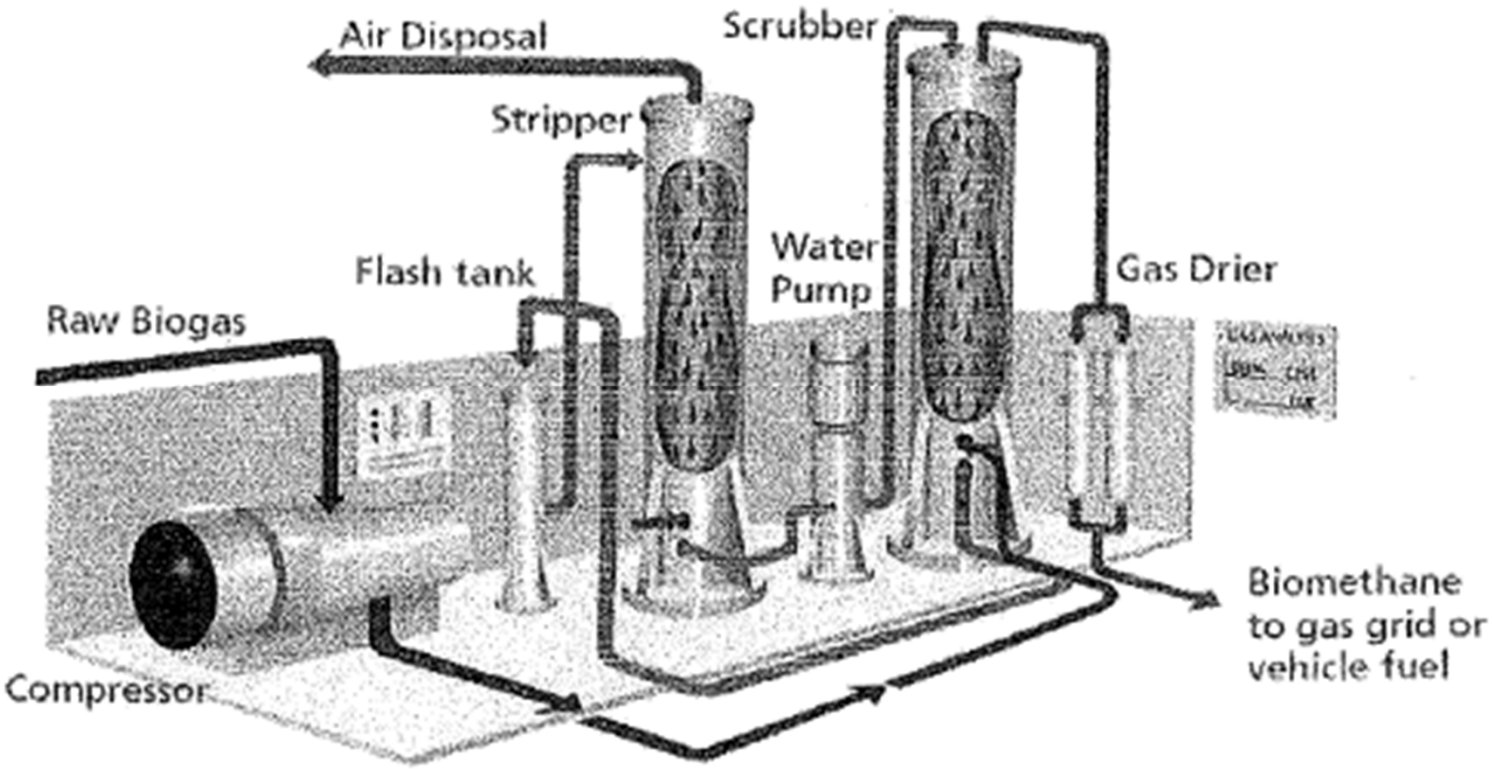
1. Manure management and organic matter input into the digester.
2. Anaerobic-digester equipment that produces the biogas.
3. A gas-upgrade plant that produces the RNG.
4. A transport system for delivering the RNG to market.
5. Byproduct production and storage.

Renewable Natural Gas to Dist. Pipeline System

RNG output will replace approx. 600,000 gallons of heating oil used by Middlebury College

Facility production: 128,000 mcf/yr.

(3) digesters, 100’dia x 19’tall



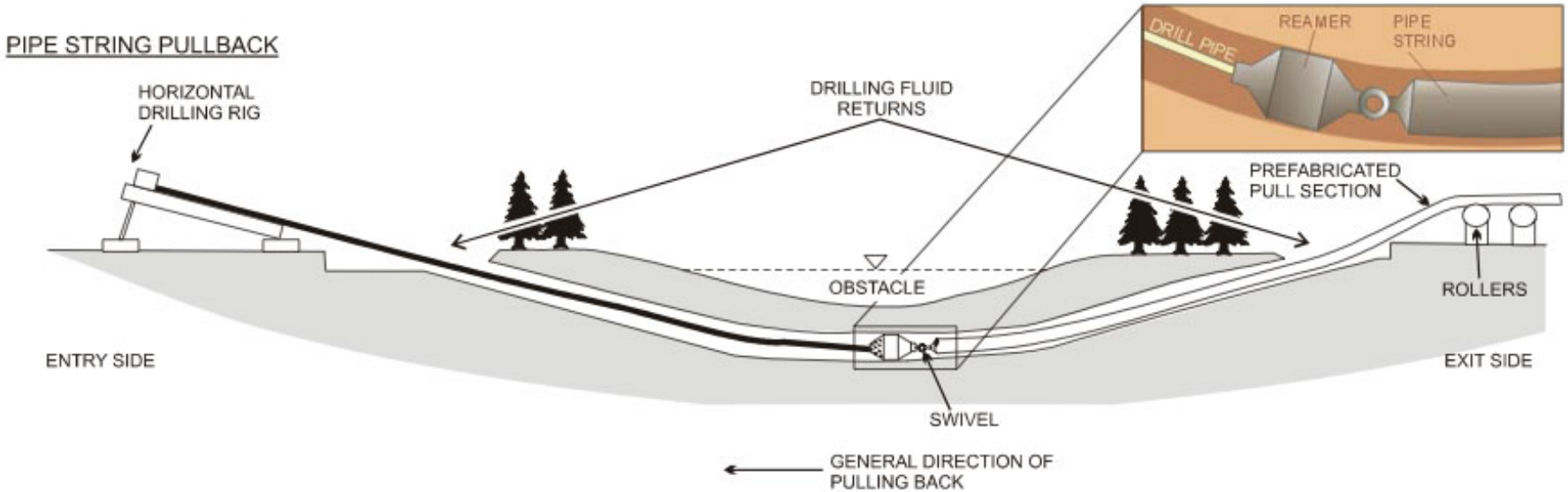
Demarcation for transmission?

Pipeline safety regulatory concerns

Transmission Line: 4”dia. 400’long

Gas quality monitoring

Concern: adequate inspection criteria for condition of HDD installed pipe



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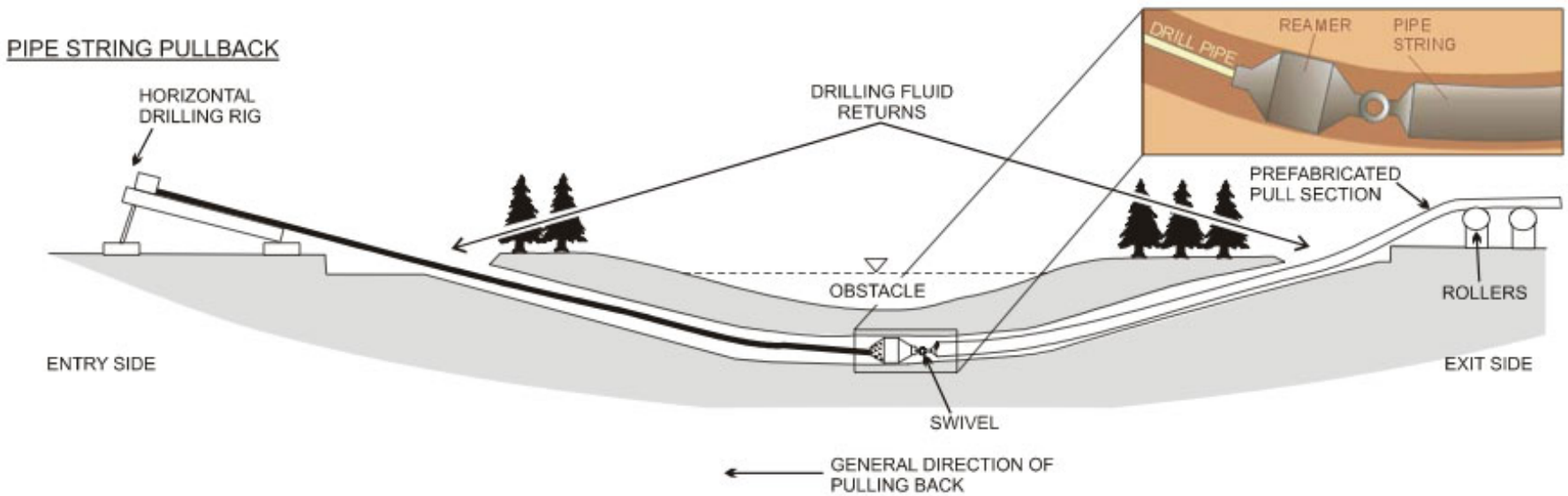
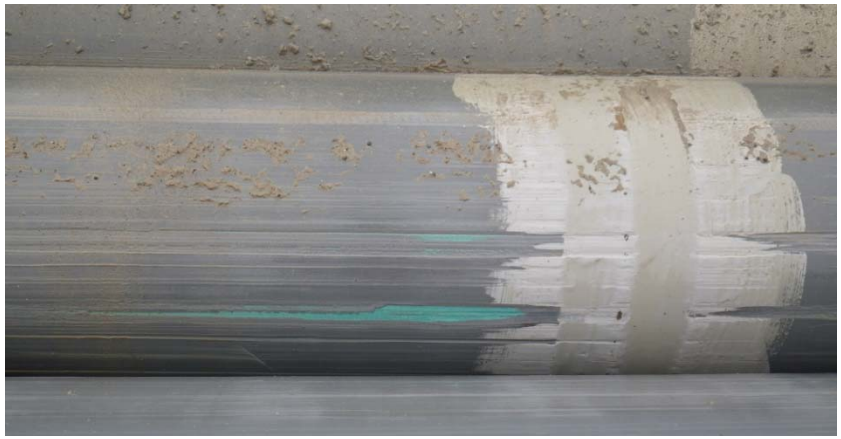


m. As pipe exits the pull side of the hole, inspect the exterior of the pipe for visible coating or mechanical damage. If the leading edge of the pipe comes out clean, the pull can be deemed complete. If the leading edge comes out damaged, continue pulling pipe until at least fifteen feet (15') is successfully pulled out without excessive coating (gouged through the ARO and into the FBE) or mechanical damage. Add new sections of pipe to the pull string as required.

Does this mean as long as FBE is not visible or FBE visible without damage?



Coating condition
Inspection of leading segment

END