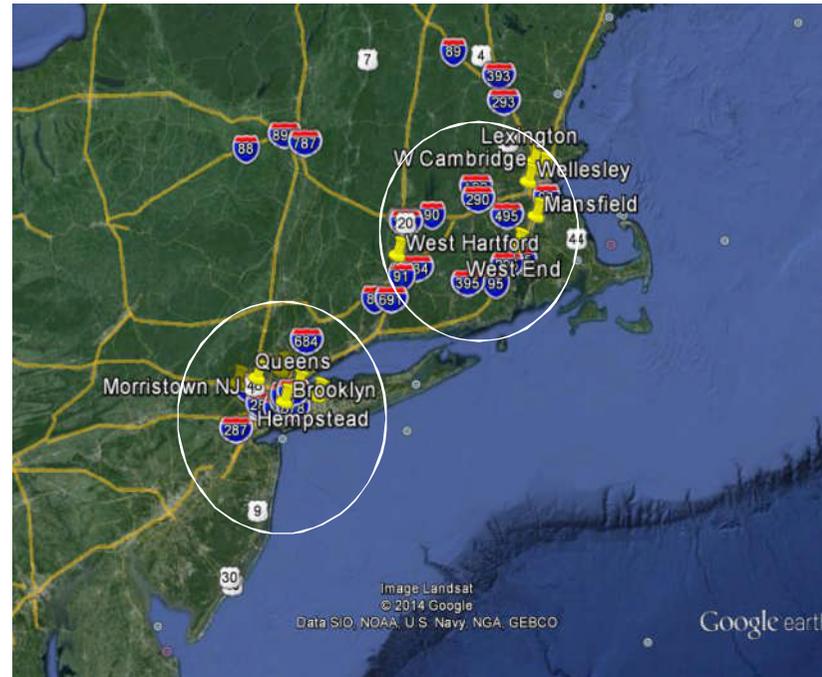




NE Hydrogen Station Network Summary DOE AMR 2016

June 10, 2016

East Coast Planned Fueling network- Stations



12 Stations for the North East

- NYC and Long Island- (4)
- Boston Area – (4)
- Connector Stations – (1) Hartford, CT & (1) Providence, RI
- Northern New Jersey- (2)

East Coast Planned Fueling network- Hubs

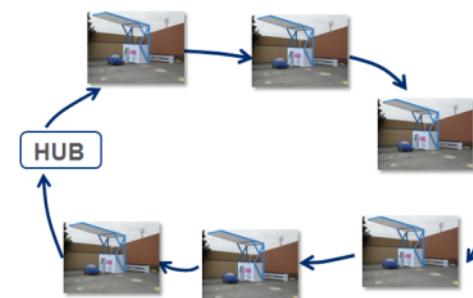
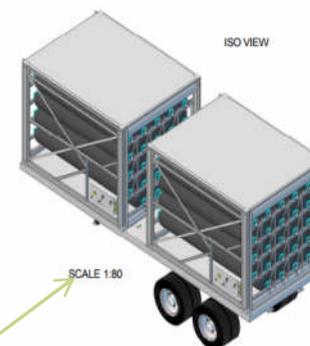
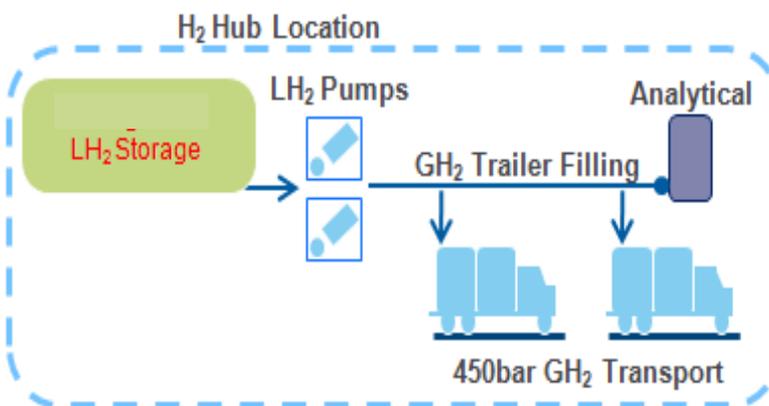


- 2 Hubs to supply the NYC and Boston clusters
 - ▮ Delivered liquid from Canada with (5) back-up sources
 - ▮ Capacity - 2,100 kg/d (each hub) or 4,200 kg/d total
 - ▮ Allows for flexible demand growth
 - ▮ Uses proven technology used in forklift applications
- Boston Hub
 - ▮ Lease signed, approved by planning, and construction permitting underway
 - ▮ Room for expansion
- NYC Hub
 - ▮ Using existing Air Liquide fill facility
 - ▮ Other sites being evaluated for planned expansion

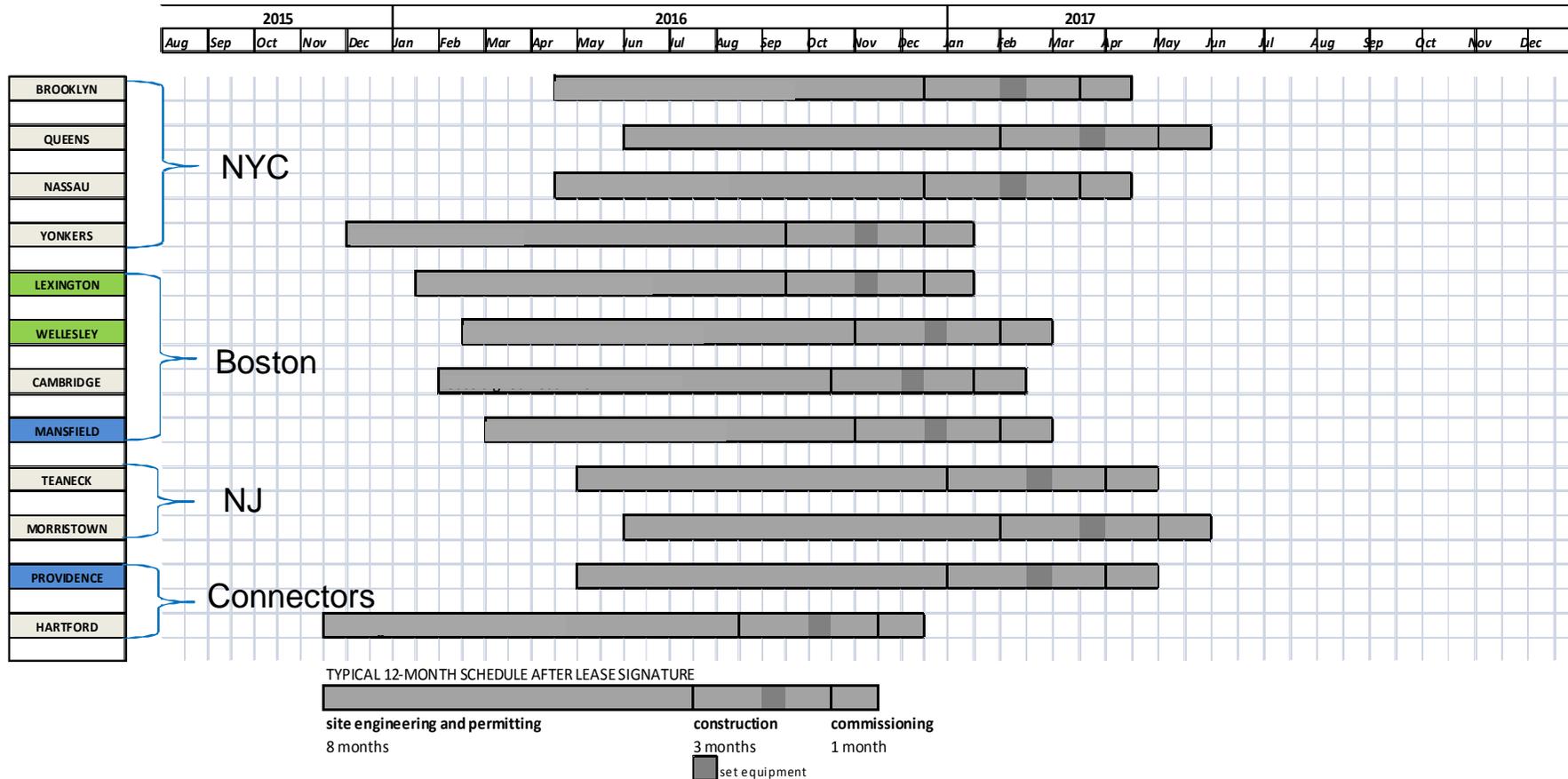
Distribution Model- Hub & Spoke



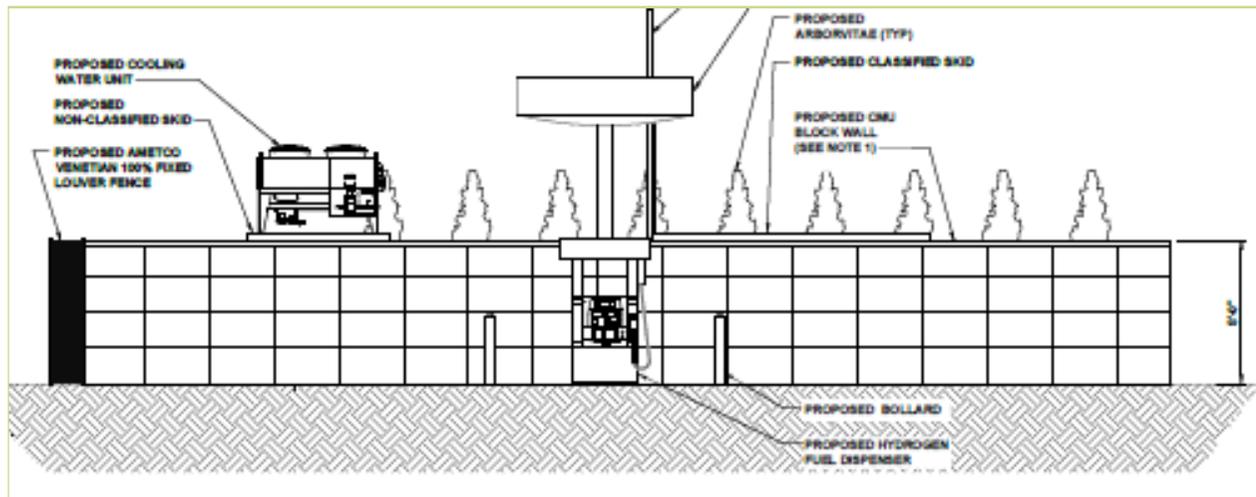
LH2 Source



Current Station Schedule



Concept for NE Stations



Barriers and Challenges



Assistance and Needs



- Help to fast track outdated regs on H2 handling
 - ▮ Help to bring consistent approach to bulk transport and storage
 - ▮ Uniform permitting process
- Establishing and setting guidelines for implementing weights and measures standards similar to CA for H2 sales. National Conference of Weights & Measures needs a “Yes” vote on July 27
- Continue to provide support for more advanced mobile fueling equipment needed to seed new markets/geographies
- Make available land grants to help ease the site acquisition effort for stations and hubs. Need more engagement from those that control properties.
- Offer incentives or provide back-stop to reduce the risk and liability of contaminated properties. Perhaps a DOE/EPA collaboration.



End of presentation

Thank You