Everett Marine Terminal: Winter 2016-17 Recap

- 2016 calendar year volume
  - 30 ships/ 70 Bcf

- Winter 2016/17
  - 14 ships/ 29 Bcf

- On this winter’s coldest day combined vapor sendout from the Everett and Canaport facilities provided New England with 1.2 Bcf. A volume greater than the largest proposed pipeline project.

- In addition on the coldest day Everett loaded 22 trucks or 19,800 MMBtu.

- Existing facilities capacity should be used prior to building incremental capacity
2016 Price Highlights ISO-NE*

- “Lowest annual average price of wholesale energy: $28.94/MWh”
- “Lowest annual natural gas price; $3.09/MMBtu”
- “Lowest and third-lowest average monthly power prices: March at $17.20/MWh and June at $21.14/MWh”
- “Five of the 10 months with the lowest monthly power prices occurred in 2016”

* ISO-NE Press Release February 27, 2017
Everett Marine Terminal: A Center of Distribution

- **Liquid delivery via truck/trailer**: 1 million gals/day
  - 100 MMSCF/D

- **Mystic Station (1,600 MW)**
  - Direct connect: 300 MMSCF/D at 765 PSIG

- **National Grid Greater Boston distribution**
  - 135 MMSCF/D at 220 PSIG

- **Tennessee Gas Pipeline**
  - 150 MMSCF/D at 730 PSIG

- **Algonquin Gas Pipeline**
  - 150 MMSCF/D at 433 PSIG

- **Boil-off direct connection**
  - Local distribution: 50 MMSCF/D at 22 PSIG

- **Mystic Station (1,600 MW)**
  - Direct connect: 300 MMSCF/D at 765 PSIG
Everett Facility Hourly Flexibility

- Installed Vaporization with redundancy is 1.04 Bcf/day with an hourly capacity of 43.1 MMSCF/hr
- Everett EMT hourly deliverability to pipelines and National Grid:
  - 20 MMSCF/hr
- Hourly deliverability into Algonquin Gas Transmission:
  - 19.2 MMSCF/hr
- Hourly deliverability into Tennessee Gas Pipeline:
  - 20 MMSCF/hr
- Hourly deliverability into National Grid:
  - 13.4 MMSCF/hr
- Power Generation Facilities looking for uneven hourly deliveries
Peak consumption can and should be met with peak supply, equivalent of 1-4 LNG cargoes.

- New England needs winter peaking capacity; in fact, increased gas demand for both heating and power generation will likely make the peaking requirement even greater.

- Distrigas Peak Send-Out of 0.5 bcf/day (excluding Mystic 8/9) could easily accommodate additional volume during Nov-Mar period.

- * Defined as the number of days when daily consumption is above 3.5 BCF/day.
Where is Neptune

Neptune Support Vessel
Intended Route

Legend
- Safety Security Zone
- No Anchorage Area
- Area To Be Avoided (ATBA)

Support Vessel Route

Northern Bay

Southern Bay

Miles

Source:
Prepared by:
Data Source: NOAA Chart 12367, 2007
Neptune and Cape Ann

- 145,130 cubic meter SRV’s
- Length 280 meters
- Breadth 43 meters
- Dead weight @ design draught 71,000 tonnes
- Sea Margin 19.5 knots
- Samsung built ship
- 4 Cargo tanks
- APL Buoy
- Regas maximum capacity 750 mmscfd
Neptune Sendout Capacity

3 Redundant Skids
--Minimum flow 50 mmscfd per skid
  2.0 mmscfh
-Maximum flow 250 mmscfd per skid 1
  10.4 mmscfh
-Two skids online with one spare
-Installed vaporization 750,000 MMBtu
-Hubline take away capacity is the limiting issue
Going Forward

- Repositioning Company back to its original conception
  - Winter/Summer Firm Peaking Vapor
  - Winter Firm Liquid Services
  - Summer LNG Refill
- Mystic Power Plant
- Customer Mix is Changing
  - Continue to Serve LDC’s
  - Power Generators ISO-NE “Pay for Performance”
  - Marketers with AMA agreements
- Will continue to contract for firm Transportation on TGP/AGT
- Questions or Comments?