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# San Francisco Peninsula System Capacity Update













October 21, 2010



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# California Pipeline/Storage Facilities



-  Interconnection
-  PG&E Storage Field
-  Third Party Storage Field
-  SoCal Gas Storage
-  PG&E Backbone
-  PG&E Local Transmission
-  Kern/Mojave
-  Mojave
-  Kern River
-  SoCal Gas
-  North Baja
-  PG&E Gas Service Territory

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## Core Customers

- Residential and small commercial customers.

## Noncore Customers

- Relatively large customers such as large commercial, industrial, cogeneration, wholesale, and utility electric generation customers.

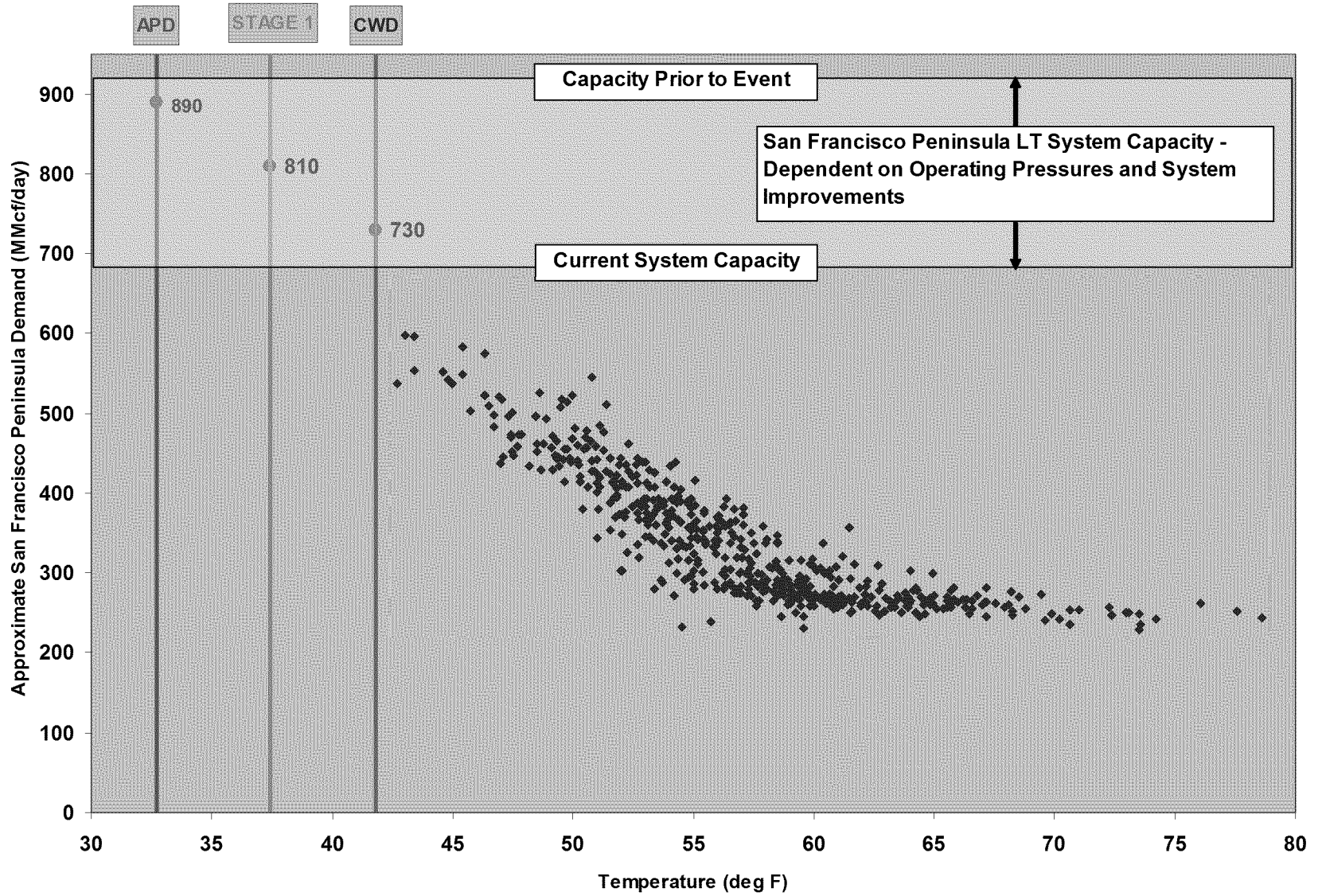
*Noncore customers have the option to become core customers.*

- **Peninsula 109 Noncore Customers**
  - 21 hospitals
  - 19 colleges/schools
  - 23 government buildings
  - City of Palo Alto gas system (noncore portion)
  - 2 waste treatments
  - 11 office buildings
  - 5 hotels
  - 9 hi-tech
  - 24 industry/manufacturing
  - 8 nurseries
  - 5 electric generation/cogeneration
- **San Francisco 46 Noncore Customers**
  - 14 hospitals
  - 6 colleges
  - 11 government buildings
  - 9 office buildings
  - steam heat system (has diesel backup, not sure about reliability)
  - 4 hotels
  - 2 electric generation/cogeneration

PG&E's Local Transmission system is designed to serve the greater of the following load conditions:

- Cold Winter Day (CWD) – Ensure reliable service to core and noncore customers
  - Occurs every 2 years on average
  - SF daily avg temperature = 42°F
  - Noncore customers fully served.
- Abnormal Peak Day (APD) – Ensure reliable service to core customers (residential and small commercial)
  - Occurs every 90 years on average
  - SF avg daily temperature = 32°F
  - Noncore customers fully curtailed. Noncore pays lower transport rate with obligation to willingly curtail.
- Noncore curtailments may begin after CWD and increase as temperatures approach APD

# San Francisco Peninsula Demand and Capacity



- Configure Milpitas Terminal to allow the potential for safe, independent pressure set points on L-101, L-109, and L-132.
- Install a new cross-tie and regulation between L-109 and L-132 upstream of the section of L-132 that is out of service (San Andreas cross-tie).
- Install regulation at existing Sierra Vista and Healy cross-ties
- Manually operate the Edgewood cross-tie as needed.
- Manually operate certain distribution regulator stations to maintain distribution system pressures.



# Next Steps

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- Complete Construction of all Capacity Projects
- Review Operating Pressure of L-101 and L-109
- L-132 pressure coordinated with CPUC based on NTSB results
- Determine Gas System Capabilities to meet all Gas Customer needs on the San Francisco Peninsula
- Continue to work with CPUC, City of San Bruno and all other Stakeholders as we move forward with our analysis