

**Steam  
Operations**



# 2008 Fall Steam Seminar

November 7, 2008  
Business Development Group



# The Steam Connection

**Robert Forte**  
**Steam Business Development**

# The Con Edison Steam Connection

- **Service Defined**

- Service Line – pipes and equipment (meters, strainers) for delivering steam from the Company's distribution system to the piping system of the customer's building or premises

- **Service Types**

- Temporary Services & Relocation of Existing Services
  - Based on initial estimate - pay in advance, in full
  - Final actual cost is reconciled

- **Permanent (Standard) Service**

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## Standard Service Installation Procedure

- **Within 250 feet of a Company street steam main**
- **Load Letter**
- **Point-of-Entry Form**



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## CONSOLIDATED EDISON STEAM BUSINESS UNIT Steam Service Load Letter

Date \_\_\_/\_\_\_/\_\_\_

Service address \_\_\_\_\_

Owner's name \_\_\_\_\_

Consulting engineering firm \_\_\_\_\_

Contact \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

Fax number \_\_\_\_\_

- Building type:
- Residential
  - Industrial
  - Commercial

- Steam utilization:
- Heat
  - Hot water
  - Air conditioning
  - Kitchen
  - Ventilation
  - Humidification

- Other  
(sterilization, reheat,  
preheat, restaurant, etc.)

- Loads:
- Additional
  - New

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Building size (cubic feet) \_\_\_\_\_ Number of stories \_\_\_\_\_ Number of dwelling units \_\_\_\_\_

Requested steam service point of entry (POE) \_\_\_\_\_

Type of steam heating system (steam perimeter, hot water circulation, etc.) \_\_\_\_\_

Type of A/C equipment (turbine or hp absorption or lp absorption) \_\_\_\_\_

Number of units \_\_\_\_\_

1. A/C tonnage \_\_\_\_\_

2. A/C tonnage \_\_\_\_\_

Steam lb/ton \_\_\_\_\_

Steam lb/ton \_\_\_\_\_

Maximum pressure required \_\_\_\_\_ if in excess of 75 psig, explain: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Date street service piping installation is required: \_\_\_\_\_

Date steam service is required: \_\_\_\_\_

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Load data (lb/hr)	Winter	Summer
Heat	_____	_____
Hot water	_____	_____
Air conditioning	_____	_____
Kitchen	_____	_____
Ventilation	_____	_____
Humidification	_____	_____
Other (sterilization, reheat, preheat, restaurant, etc.)	_____	_____
Total	_____	_____

over 

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## Steam Service Load Letter

Do you use an alternate source of energy (gas or electric)?  Yes  No

If yes, check one  Gas  Electric

If yes, for what use? \_\_\_\_\_

Will steam be used as a back-up source?  Yes  No

If yes,

1. Define the on-site source (check one)

Fired boiler (steam or hot water)

Fired distributed generation equipment

Electric

Other, describe: \_\_\_\_\_

Provide maximum steam capacity of the system used \_\_\_\_\_ lb/hr.

2. Describe the method of interconnection (check one):

Tie into low-pressure system (less than 15 psi).

Tie into medium-pressure system (15 psi – 100 psi).

Tie into high-pressure system (more than 100 psi).

Tie into the hot water system.

Other, describe: \_\_\_\_\_

A professional engineer or a registered architect must stamp the Steam Service Load Letter.

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## Consolidated Edison Steam Business Unit



### Point of Entry Determination for New Services Site Drawing

Please provide the following information on the site drawing below. Indicate the point of entry (POE). Note, under Specific Conditions, any other utility penetrations within five feet of that point.

Site reference points are needed in order for Con Edison to locate the point of entry and entry elevation of a proposed steam service. Building line, property line, and curb line references need to originate from a fixed, current, and clearly visible point of reference. The directional words "East," "West," "South," or "North" of the reference point should be used with accurate numerical foot and inch measurements. Elevation should be given from the top of street or top of sidewalk.

The building location should be clearly identified by address and street name. The nearest cross streets or avenues should be identified on the drawing below. If the building number or boundaries are different from those shown in the current *Sandborn Manhattan Land*

*Book*, this should be noted, and suitable reference points should be chosen to identify the property in question.

The building line should be accurate, in accordance with the Land Book or with current renovations. The point of entry description should be given from the nearest building line location that presently exists with correct building number. If the nearby building line is not easily determined in the field, alternate reference points should be utilized.

The property line should be accurate, in accordance with the Land Book or with current renovations. The point of entry description should be given from the nearest property line location that has a building at the property line. When the building is not actually at the property line, the measurement between the building or vault and property line should be given. If the property line location is not easily determined in the field, alternate reference points should be utilized.

The curb line should be accurate in accordance with present street conditions. The point of entry description should be given from the nearest street curb perpendicular to the point of entry. The width of the sidewalk should also be given. Curb line references should always be used for buildings that span the entire block. In addition to the above point of entry external descriptions, the point of entry should be shown on a site plan of the building. The site plan should show any vaults that exist as well as the location of the meter room within the building.

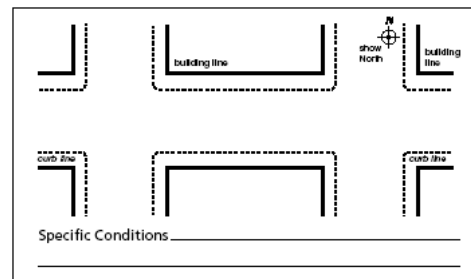
In summary, the building line, property line, and curb line are important linear references for the point of entry to be accurately located. The nearest, clearly visible, fixed reference point to the point of entry should be utilized for this purpose.

The **POE Determination for New Services site drawing** may be **faxed** to the attention of Robert Forte at 1-212-460-4445 before being mailed to the address listed below.

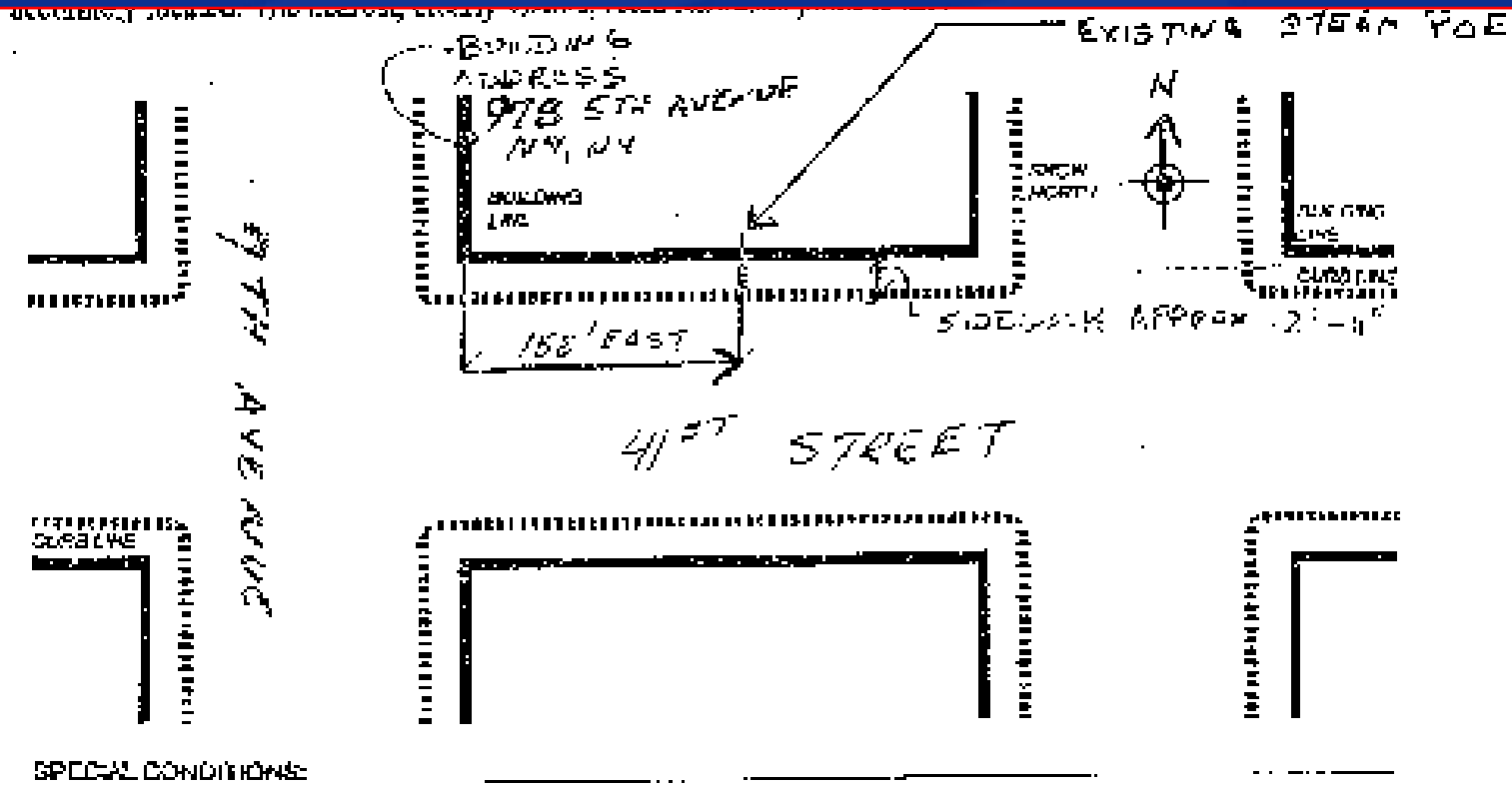
Send the POE site drawing to:

Robert Forte  
Con Edison  
Business Development  
4 Irving Place, Room 1328  
New York, NY 10003  
Tel. 1-212-460-4445  
Fax. 1-212-473-2538  
[www.conEd.com/steam](http://www.conEd.com/steam)

March 2006



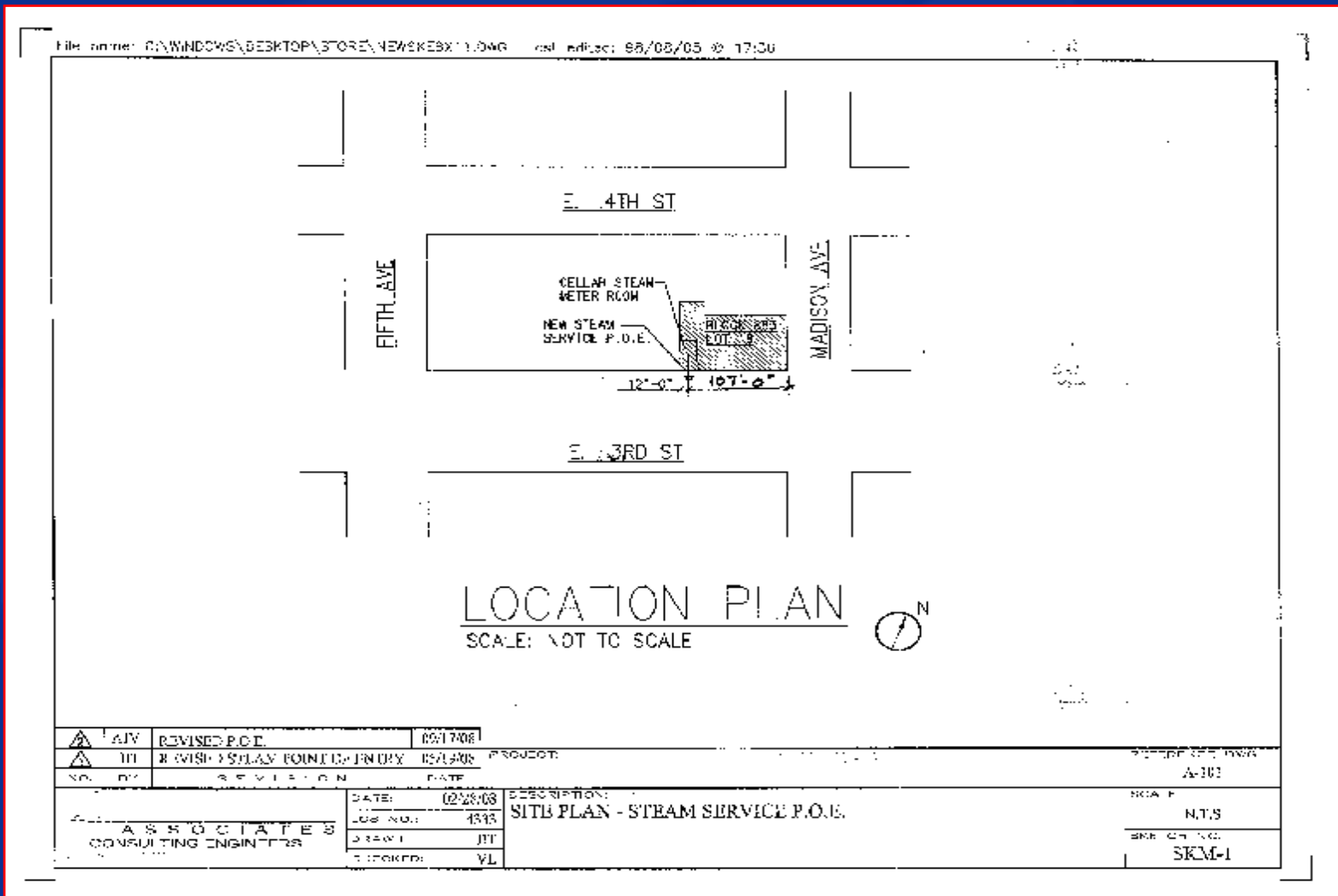
# The Con Edison Steam Connection



*See Plan & Addendum 1*

*DATE: 5/12/08*

# The Con Edison Steam Connection



# The Con Edison Steam Connection

## Rider B

### Prepayment for Installation of Service Line

- Prepayment required when service installation cost exceeds:
  - 2-years' Pure Base Revenue (PBR)
- PBR =
  - Total Steam Bill – (Taxes + Fuel Adjustment + Customer Charge)
- Prepayments are refunded at 10% of each monthly bill for up to 10 years

# Remaining Agenda Items

- **Lunch**

Answers to all your questions as you enjoy lunch hosted by  
**Steam Business Development**

- **Update on PlaNYC**

**Jonathan Dickinson**  
Mayor's Office of Long Term  
Planning and Sustainability

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