

## **Subject: STEAM SERVICE INSTALLATIONS**

The HPUC will install a new steam service connection for a customer complete with valves in the manholes, meters, and dirt strainers. Customers are responsible for the costs of installation and maintenance of their steam service lines and the costs of installation of a steam manhole to contain the shut-off valves if there is no existing manhole. Installation charges must be paid by the customer prior to service installation.

### **Steam and Condensate Installations**

1. A customer's steam and condensate system that will be connected to the HPUC's distribution main, will be constructed in accordance with accepted steam fitting and piping guidelines, HPUC procedures and regulations, and the rules of any applicable government agency.
2. The customer is responsible for the installation of a steam manhole to contain the steam and condensate shut-off valves, in the even there is none in existence. When a manhole exists for service valve installations, it will be used.
3. The customer's heating system, except the main header, will be constructed so there is a gradual rise, without sage, in every run of pipe serving the installed radiation.
4. The main header will slope down to the end where the header trap is installed.
5. All return piping will be of a size that runs from radiators one standard size larger than the trap outlet, and increase in size in direct ratio, as radiation is added, until the delivery of condensate to the HPUC's meter. All return piping will have a definite pitch, without sags from traps, towards the meter.
6. All the piping will pitch so that the system will drain properly, without dependence on any vacuum the HPUC chooses to carry on its own lines.
7. No customer's heating system will be served with steam unless the HPUC is satisfied that the proper provisions have been made for the use of traps and valves.
8. The customer is responsible for the installation of a bleeder trap to properly bleed any possible condensate in the steam line. The bleeder trap is to be installed at the steam service entrance to the building and close to the inside wall. The bleeder trap will be of dimensions approved by the HPUC and consist of a standard valve and a Warren-Webster thermostatic float trap, or its equivalent. It must not be a water seal. The valve will be located on the steam side of the trap. The trap will empty directly into the return line through a union connection located so that it can readily be opened to detect blowing of steam through the trap.

**Meter and Dirt Strainer Installations**

The HPUC owns the steam meter and dirt strainers. The customer is responsible for installation of the meter and dirt strainer, through which all condensate from the steam system passes. The meter, dirt strainer, and associated plumbing are to be installed on a suitable stand provided by the customer. The outlet of the meter will be placed so that there is a 6-inch straight drop to the return line.

The meter must be readily accessible for meter readings and must not be hidden or concealed to prevent access to it by the Meter Readers. Meters are sealed by the HPUC and the seals must not be tampered with or broken without the consent of the HPUC except in an emergency. Customers must notify the HPUC immediately if a seal has been broken. Customers may be billed for any abnormal damage to their meter.