

Policy:

Ensure an adequate supply of water and an alternate means of providing water in the event of a city water outage or water pump failure.

Prevailing Codes and Standards:

TJC EC 04.01.01 & University Hospital Safety Manual

Procedure:

I. GENERAL

LSUHSC water supply is connected to two separate water mains; one from Linwood, the other from Kings Highway. In the event of a broken main and subsequent water loss, domestic water can be routed to the alternate main and water service restored. The routing of the water mains is a function of the City Water Department (contact 673-7600). Maintenance will respond to the water outage, determine which buildings are without water, inform Hospital Administration of the options available and move to minimize the outage.

Hospital wings G, H, J, will not immediately notice a water outage. They receive domestic cold water from a 12,000 gallon tank located on the 12th floor of the hospital. However, the following locations are provided directly from city water source and will immediately feel the effects of an outage caused by a loss of city water: Hospital wings A through F, K wing, N-Wing, Laundry, OPD, Power Plants, Medical School, Eye Clinic, FWCC, ACC, WCC, Administration Building, Allied Health, and Spartan Warehouse.

Under normal consumption, the Hospital wings G, H and J have an estimated 2-4 hours of water available which could be extended several hours through strict water rationing. A low water alarm is installed to provide notification when the tank water drops to the 3,400 gallon level.

Two valves (see attached drawing for approximate locations) exist on the 6 inch main entering the Hospital power plant from Linwood. One valve shuts off the Linwood city main.

The other valve isolates a Kings Highway cith main that runs parallel to Linwood.

The following procedures will be utilized should it be ascertained that an extended outage is expected.

II. HOSPITAL DOMESTIC WATER FAILURE - Linwood water main failure.

- A. Make sure supply valve from Linwood is shut off.
- B. Option 1
 - 1. Confirm the Kings Highway main valve feeding the Hospital Power Plant is open. This valve can supply domestic water to the Hospital.
- C. Option 2
 - 1. Go to K-wing basement underground. Locate and open water valve 103. Valve 103 is located on the 4 inch water line on the east side of the K-Wing elevator shaft. Valve is labeled "Valve 103 - Linwood/Kings Highway domestic water diversion". This diverts water from the Kings Highway water main to the hospital domestic water delivery system.
- D. Go to hospital power plant, contact the power plant operator and ask for assistance. Advise him of the situation and verify that the valve on the domestic water manifold marked DCW #7 Cold Water Supply/Laundry is open.
- E. During normal working hours, inform Maintenance Control that the hospital is on an alternate water system and that pressures may be reduced.
- F. After hours, notify the Superintendent on call.
- G. Notify Superintendent on call or Maintenance Control when service is restored.
- H. If either the hospital or K-Wing have a supply water failure, there is an interconnecting valve located above ceiling 10th floor in the corridor by the H-Wing nurses station.

III. HOSPITAL DOMESTIC WATER FAILURE - Kings Highway water main failure.

- A. Make sure supply valves from Kings Highway are shut off.
- B. Confirm the Kings Highway main valve feeding the Hospital Power Plant is open. This valve can supply domestic water to the Hospital.
- C. Go to hospital power plant and contact the power plant operator for assistance. Advise him of the situation

and verify that the valve on the domestic water manifold marked DCW #7 Cold Water Supply/Laundry is open.

- D. During normal working hours, inform Maintenance Control that the hospital is on an alternate water system and that pressures may be reduced.
- E. After hours, notify the Superintendent on call.
- F. Notify Superintendent on call or Maintenance Control when service is restored.
- G. See Hospital Domestic Water Failure II G.

IV. **TOTAL WATER FAILURE** - Both mains

- A. Inform the following that all domestic water is out:
 - 1. Director of Physical Plant will contact Hospital Administration and House Supervisor
 - 2. Maintenance Control if during normal working hours.
 - 3. Safety Office (or Officer on-call), who will contact Caddo/Bossier Homeland Security and Region 7 DRC and request assistance from Louisiana National Guard.
 - 4. Animal Resources (tell them air handlers will be shut off.)
 - 5. BRI Facility Manager
- B. Shut down all non-critical air handlers first (A, B, C buildings, and BRI), then selective hospital units.
- C. Shut off fire pumps A, B, OPD, Allied Health and K Wing.
- D. Shut off water-pumped medical air and vacuum, specifically B Building.
- E. Shut off all unnecessary water i.e. kitchen.
- F. Be prepared to feed water to boilers or chillers from school plant well water system.
- G. Monitor hot water generators for water level, K Wing 1st floor tower and 11th floor, hospital 11th floor, OPD, Allied Health, B Building and laundry.
- H. Evaluate the need for chillers, shut down if possible. Notify Radiology (if MRI connected to chilled water system).
- I. It will be at the discretion of Power Plant Supervisor to shut down Power Plant Equipment such as boilers, chillers, or pumps prior to major damages which may occur to that equipment due to lack of water flow. Supervisor will evaluate the use of the water well. Notification of such action will be related to Physical Plant representative as soon as possible.
- J. Secure the line and turn on the Firewater valve 2.

- K. The plant operator will open or verify open the following valves on the domestic water manifold:
 - 1. Valve DCW 62
 - 2. Valve DCW 22.
 - 3. Valve marked DCW #7 Cold Water Supply - Laundry.
- L. Go to K-wing underground. Locate and open water valve 103 to divert water to the K-wing delivery system.
- M. National Guard potable water tanker to connect up to the standpipe located on the north outside wall of the hospital power plant.
- N. When connection is complete, LSUHSC power plant to start circulating pumps.
- O. When city water becomes available, contact Physical Plant Director for permission to restore the system to normal.
- P. Notify Maintenance Control when service is restored.

V. Women's & Children's (WCC)/Ambulatory Care Domestic Water Failure

The water supply is connected to the city main on Linwood. The in-ground valve box is located at the northeast corner of the WCC (this is not to be confused with the fire main enclosure which is above ground at the same location). The routing of the 6" domestic water line is to the WCC, the Ambulatory Care Building and the power plant (west of the shipping and receiving building).

VI. Cancer Center Domestic Water Failure

The water supply is connected to the city main on Kings Highway. The in-ground valve box is located at the northwest corner of the Cancer Center.

Maintenance will respond to a water outage, determine what options are available, inform Hospital Administration, contact the city Water Department and move to minimize the outage.

VII. Allied Health Building Domestic Water Failure

The water supply is connected to the city main on Woodrow St. The in-ground valve box is located at the northwest corner of the Allied Health building.

Maintenance will respond to a water outage, determine what options are available, inform Dean of Allied Health Professions, contact the city Water Department and move to minimize the outage.