

## 1. Type of Assessment (check as appropriate)

On-site assessment     Telephone assessment     Mailed/emailed prior to telephone conference

## 2. Information about the person doing the assessment

Name \_\_\_\_\_

Job title \_\_\_\_\_

Facility name \_\_\_\_\_

PFI (Permanent Facility Identifier) \_\_\_\_\_

Facility address \_\_\_\_\_

Date of assessment \_\_\_\_\_

## 3. Contact information

Telephone number (work and/or cell) \_\_\_\_\_

FAX number \_\_\_\_\_

Email \_\_\_\_\_

## Instructions and Notes to the User (please read)

**Please complete this form and keep it with your records. You do not need to submit it to NYSDOH. You will need to produce this form at the request of NYSDOH as part of a routine inspection or during the investigation of an outbreak.**

This information collection tool may be used where a thorough understanding of the potable water system of a healthcare facility is needed during a public health investigation. It can be used by a hospital multi-disciplinary group that includes: a hospital epidemiologist, infection control practitioner, engineer, facility manager or other individual(s) engaged in efforts to reduce the risk of legionellosis associated with the facility. It may also be used to assist the facility in efforts to minimize the risk of legionellosis in the absence of evidence of human disease or when a facility is reviewing/implementing the NYSDOH guidance document on hospital-associated legionellosis. It should be completed in as much detail as possible. Some information requested by the tool may not be applicable for every healthcare facility.

For very large, complex healthcare facilities, completing the form may take several hours. Please keep in mind that this initial investment of time is quite important and will be a time-saving device during periodic re-assessments. If follow-up with the facility is needed in subsequent months or years, the information contained in this form will be very valuable. **Please do not leave sections blank. If a question doesn't apply, write N/A. If a question can't be answered please explain why.** Where applicable, please specify the unit of measurement being used (e.g., ppm). It is recommended that if you are completing the form electronically, you use a different font and/or italics for your answers. This will make the form much easier to read if additional information is added in the future to an existing form.

**A. Facility Characteristics**

1. Number of buildings (including the main facility) that share:
  - a. water systems with the facility \_\_\_\_\_
  - b. air systems with the facility \_\_\_\_\_
2. Number of Intensive Care Unit beds (including surgery, coronary care, etc.) \_\_\_\_\_
3. Does the facility have a solid organ transplant program? \_\_\_\_\_  Yes  No
4. Does the facility have a bone marrow transplant program? \_\_\_\_\_  Yes  No
5. Type of healthcare setting (check all that apply):  Acute care hospital  Long-term care facility  Outpatient surgical center  Assisted living facility
6. Organization that owns this facility is:  Public  Private  Veterans Administration  Other (explain) \_\_\_\_\_
7. Description of **each** building that shares water or air systems with the facility (and including the main facility):

Building Name	Original Construction	Later Construction	Stories	Sq. feet	Beds	Census	Use
List main facility first	Year completed	(renovation, expansion)				(yr. avg.)	List all types of care and/or specify other use
		From/To or N/A	#	Ft <sup>2</sup>	# or NA	#/day or NA	I = Inpatient=I O = Outpatient B = Both ICU = Intensive Care Tx = Transplant

8. Can windows in patient rooms be opened?  Yes  No  
Are any cooling towers visible from the rooms where patient windows can be opened? Please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. Are there decorative fountains, water features, room humidifiers, centralized humidification (e.g. on air-handling units) or any other aerosol-generating devices anywhere on the facility premises?  Yes  No  
If **yes**, please describe and indicate their location and operation: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
10. Are there therapeutic whirlpools/spas on-site?  Yes  No  
If **yes**, is there a written protocol for cleaning and regular service? Please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
11. Has this facility experienced previous Legionnaires' disease cases that were 'possibly' or 'definitely' facility acquired?  Yes  No  
If **yes**, please describe (e.g., number of cases, dates): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
12. Does the facility have a surveillance program for Legionnaires' disease?  Yes  No  
If **yes**, please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. Does the facility have an environmental program for Legionella prevention?  Yes  No  
If **yes**, please describe (prevention/surveillance, etc.): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
14. Does the facility regularly test the fire protection system (i.e. sprinkler head flow tests)?  Yes  No  
If **yes**, how often? \_\_\_\_\_  
What precautions are taken to protect staff and patrons from aerosols during testing of sprinkler heads? \_\_\_\_\_  
\_\_\_\_\_

**B. Outside water supply**

1. What is the source of the water used by the facility? *(Check all that apply)*

Public water supply     Well     Other \_\_\_\_\_

**If the facility is served by a public water supply, please answer the remaining questions (2 through 4 below), otherwise skip to section C.**

2. Name of supplier \_\_\_\_\_

3. How is municipal water disinfected?

Chlorine     Monochloramine     Other \_\_\_\_\_     Don't Know

4. Has treatment of the public water supply changed in the last six months? \_\_\_\_\_  Yes     No

If **yes**, specify \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**C. Design of the existing potable water system(s) [Note: A simplified schematic on a separate page and/or facility blueprints are useful for demonstrating the design including number or supply laterals from the public water supply, number and location of risers, whether a water system is fed from the "bottom-up" or "top down", etc.]**

1. What type of heating system is used for the potable hot water system? *(Check all that apply)*

Instantaneous heaters without storage of hot water     Heaters with hot water storage tanks

Other *(Please describe)* \_\_\_\_\_

2. How is the hot water system configured to deliver water to each building?

Building name	Type of system I = Instant H = Heater/boiler	Name of system (e.g., Boiler #1, Loop #1)	Date of installation	Total capacity (gallons)	Usual temperature setting (°F/°C)

3. Is there a recirculation system for the hot water? \_\_\_\_\_  Yes  No  
 If **yes**, please describe (including delivery and return temperatures) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
4. If you use storage tanks for heated water how and when are the tanks serviced? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- 5a. What is the lowest documented HOT water temperature measured at any point within the facility? \_\_\_\_\_  
 \_\_\_\_\_ °F or \_\_\_\_\_ °C  
 When were these measurements made (Month/Date/Year)? \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
- 5b. What is the highest documented COLD water temperature measured at any point within the facility? \_\_\_\_\_  
 None taken  
 \_\_\_\_\_ °F or \_\_\_\_\_ °C  
 When were these measurements made (Month/Date/Year)? \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
6. Are mixing valves used at a point after the water heater so that you can maintain higher heating/storage temperatures but deliver at a safe temperature? \_\_\_\_\_  Yes  No  
 If **yes**, describe the heating/storage temperature and the delivered mixed hot water temperature. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
7. Are thermostatic mixing valves used anywhere in patient care areas? \_\_\_\_\_  Yes  No  
 If **yes**, where? *(Please describe)* \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
8. Does the facility have a water softener on site? \_\_\_\_\_  Yes  No  
 If **yes**, please describe *(Include routine service)* \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

9. Are the potable hot and cold water free chlorine levels measured? \_\_\_\_\_  Yes  No

If **yes**, how often? \_\_\_\_\_

If yes, what is the range of residuals (ppm or mg/l) in each system? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10. Does staff monitor the main inlet (cold water) free chlorine levels? \_\_\_\_\_  Yes  No

If **yes**, how often? \_\_\_\_\_

Concentration? (ppm or mg/l) \_\_\_\_\_

11. Ice Machines

Ice Machine Manufacturer	Model and/or Name	Location (floor, wing, unit)	Does this machine have a stainless steel filter*?	Does this machine use a pleated or wound-fiber cartridge filter*?	Other pre-filters or filters?* (carbon, ceramic, etc.)**	Is this machine also a water dispenser?	Is this machine cleaned or disinfected regularly?	What is the normal period between cleanings?

\* When known please provide micron cut-off (that is, nominal or absolute pore size) for filters.  
 \*\* Please specify if the filter is considered microbiological barrier of any kind (< 0.45 micron pore size cut-off).

12. During the past 12 months has the facility had supplemental potable water treatment aimed specifically at prevention of microbial contamination of water delivered to patient rooms?  Yes  No

If **yes**, what was done? *(Please describe)*: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

13. In the next 12 months, does the facility plan to install a supplemental potable water treatment aimed specifically at prevention of microbial contamination of water delivered to patient rooms?  Yes  No

If **yes**, what? *(Please describe)*: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

14. If **yes** to either question 12 or 13, please complete the following table:

Buildings where supplemental disinfection is installed or planned	Type of disinfection (Cl, Cu-Ag, ClO2, UV, O3, other)	Date installed or planned





2. Recent (last 6 months) **special treatments, special maintenance** or repairs to cooling devices or air-handling units (for **routine** chemical treatments see #5 below):

Location	Name of device (e.g., CT1, EC2, AHU-1, etc.)	Action taken	Date	Comments

3. What is the source of water for the cooling towers and evaporative condensers? *(Please specify):* \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

4. List any routine chemical treatments used for your cooling towers, evaporative condensers or air-handling units (i.e. AHU pans, trays, fins or coils):

Location	Name of device (e.g., CT1, EC2, AHU-1, etc.)	Chemical Treatments	Frequency*	Vendor/Consultant

\* continuous, daily, weekly, irregular/intermittent



2. Was temporary water service provided to the construction area (e.g., separate meter used for new construction or remodeled/rehabilitated area)?  Yes  No  N/A  
 If **yes**, describe: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
3. Has jackhammering or pile driving been used during any recent construction/remodeling/rehabilitation process?  Yes  No  N/A  
 If **yes**, describe (dates, location): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
4. Do you have a Standard Operating Procedure (SOP) for shutting down, isolating, and refilling/flushing for water service areas that have been subjected to repair and/or construction interruptions?  Yes  No  N/A  
 If **yes**, please briefly describe the steps used in the SOP (attach copy if possible): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
5. Has the potable water changed in terms of taste or color during any recent construction processes?  Yes  No  N/A  
 If **yes**, describe: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
6. In the past 6 months have there been any interruptions of service, potable water malfunctions or nearby water main breaks or repairs?  Yes  No  
 If **yes**, please describe including buildings that were affected, beginning and end dates of the event, etc.): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
7. If **yes**, was any soil material introduced into the pipe(s) during these times?  Yes  No  N/A
8. If **yes**, please describe any steps taken to remediate the water during and after the upset condition (water main break, loss of pressure): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
9. Before occupying any new building space or new wing/ rehabilitated or remodeled area, was a commissioning/walk through process undertaken?  Yes  No
10. If yes, describe (that is, who performed the commissioning/walk through, when was it completed, etc.): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
11. Is a commissioning/walk through report available for review? \_\_\_\_\_  Yes  No

